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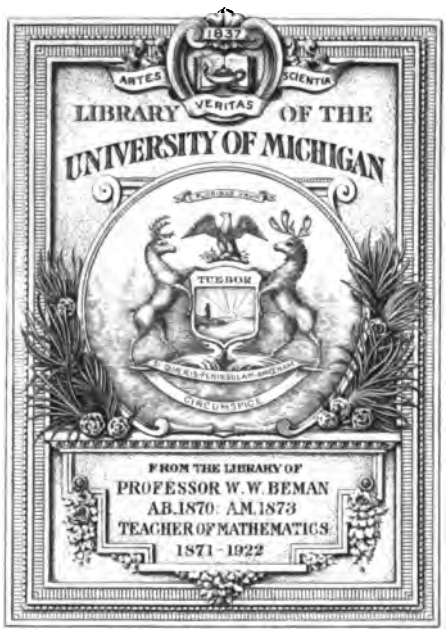
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AGRICULTURE —— ASTRONOMICAL INSTRUMENTS.

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WITH THE ASSISTANCE OF

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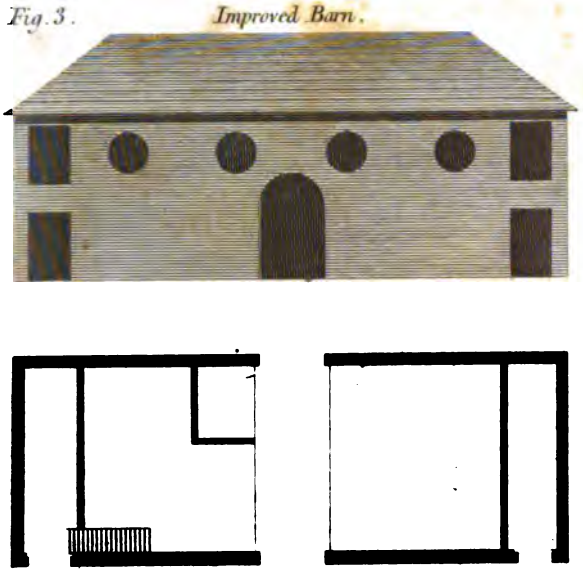
1820.

AGRICULTURE.

Fig. 3. Improved Barn.



Common Barn. Fig. 1.

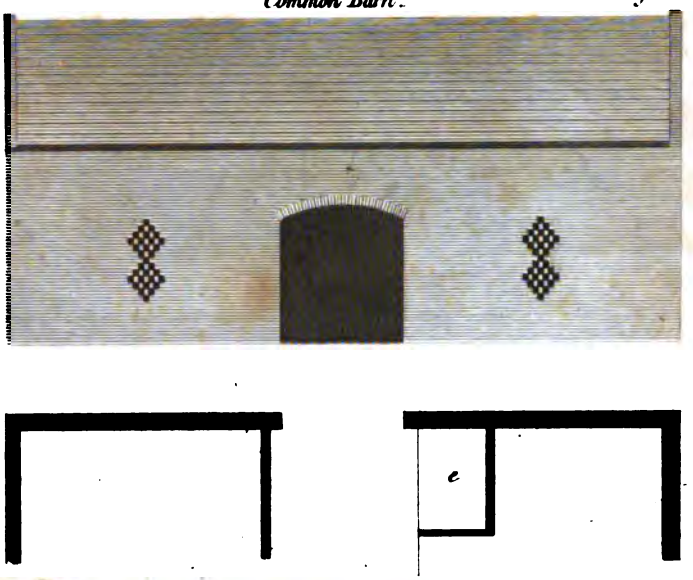


Fig. 4. Open Barn.

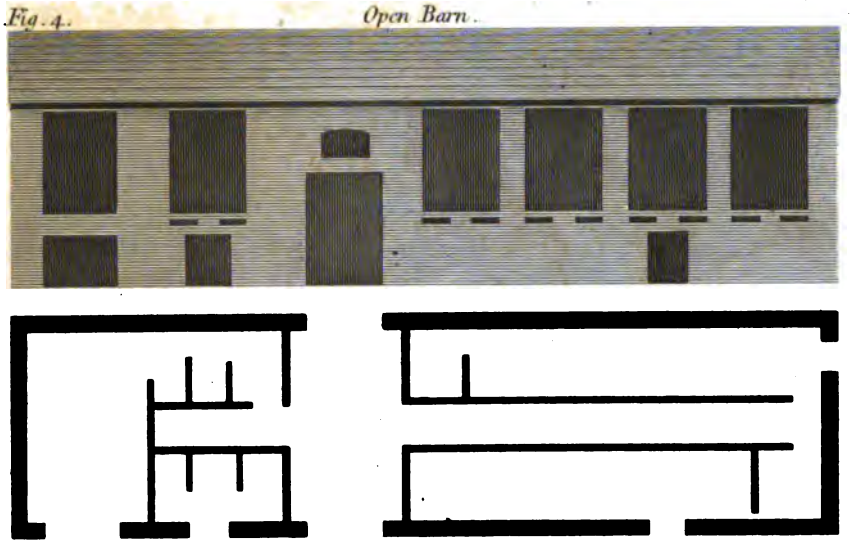
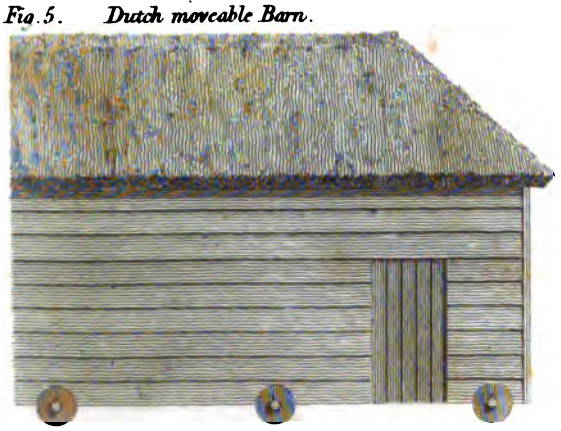
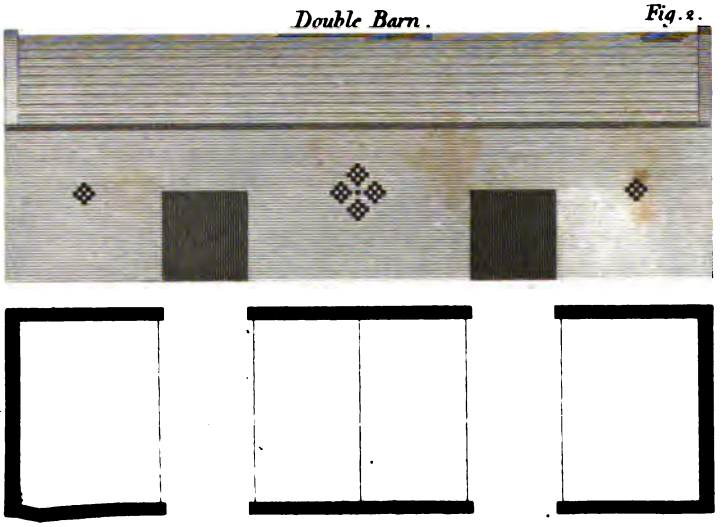


Fig. 5. Dutch moveable Barn.



Double Barn. Fig. 2.



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BARNS, AND THRESHING MACHINES.

Fig. 4.

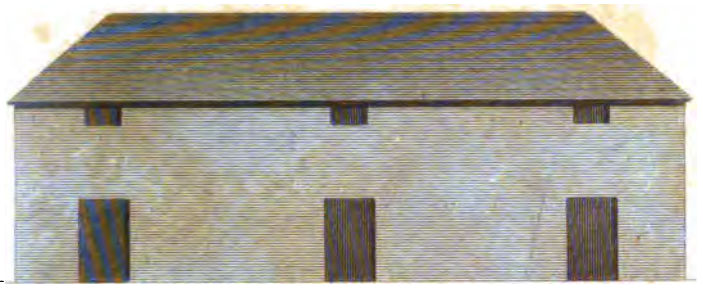
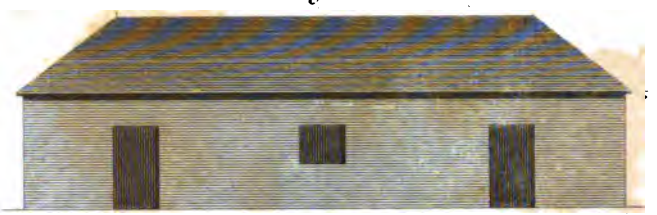


Fig. 1.



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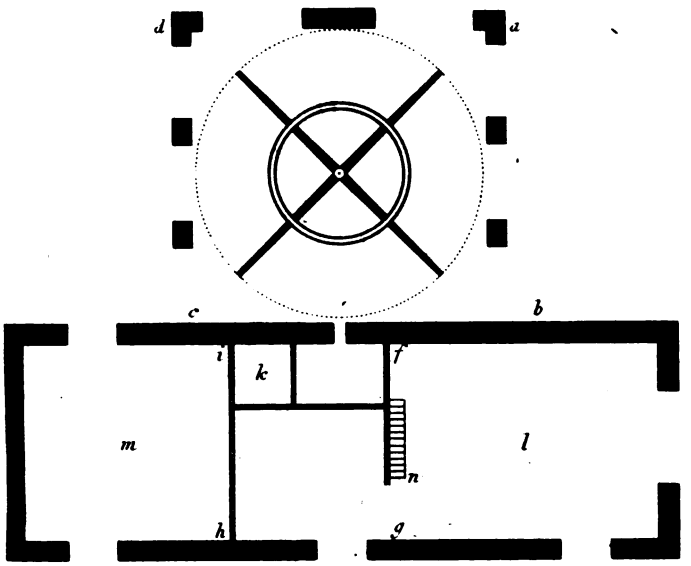

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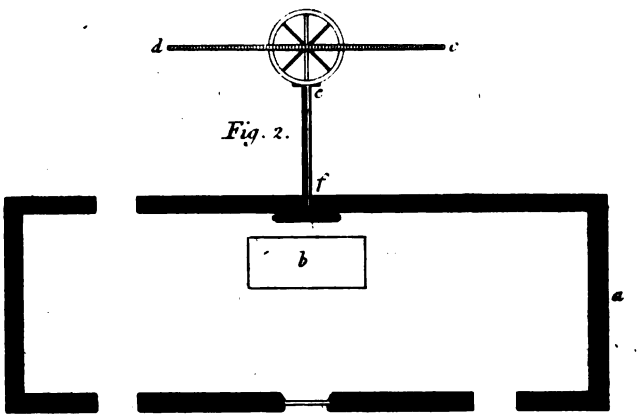

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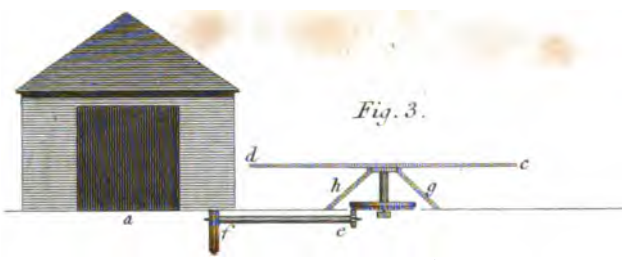
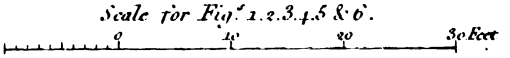


Scale for Fig.s 1.2.3.4.5 & 6.



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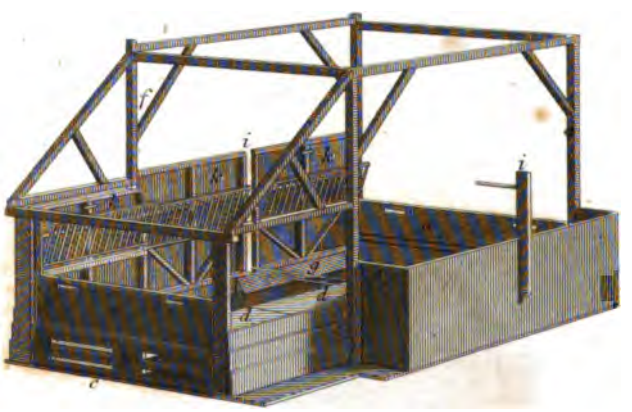

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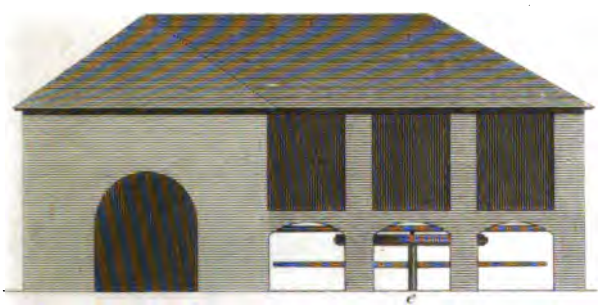

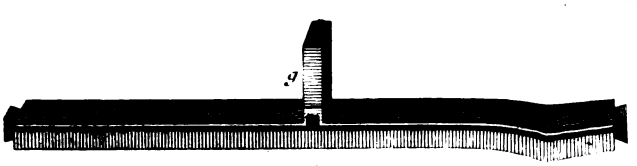

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CARTS.

Fig. 1.
Blasting Stones.

Fig. 3.

Fig. 4.

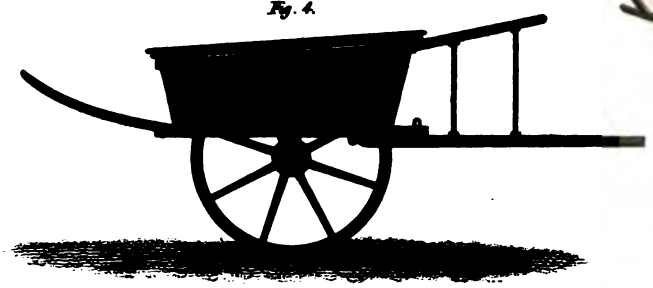


Fig. 5.

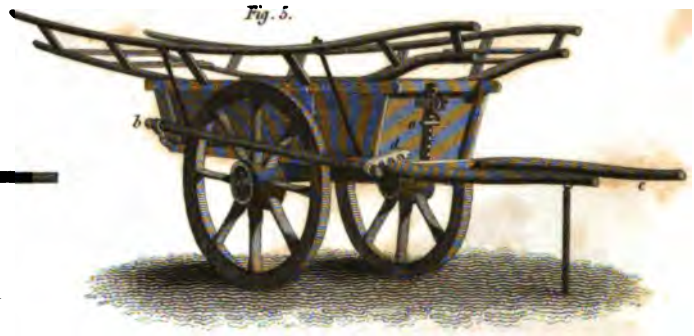


Fig. 5.

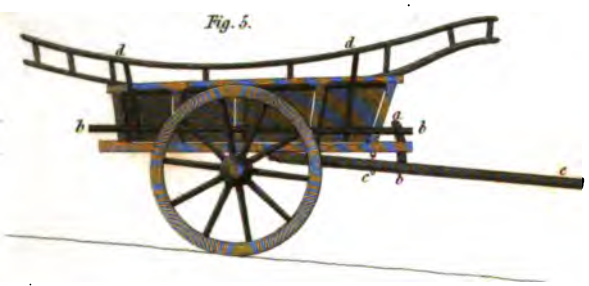
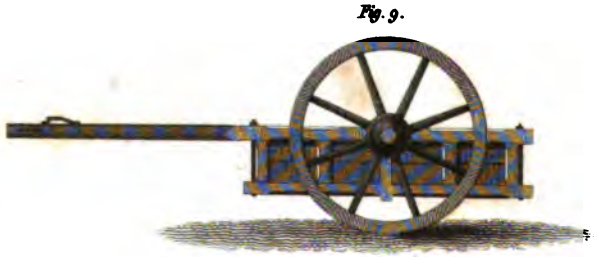


Fig. 7.

Fig. 8.

Fig. 9.



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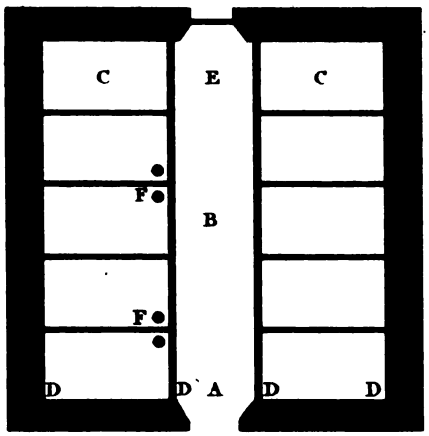
CALF PENS, CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.



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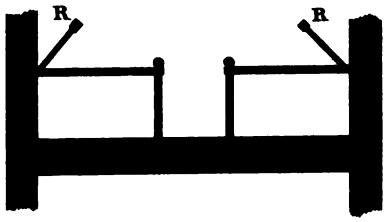
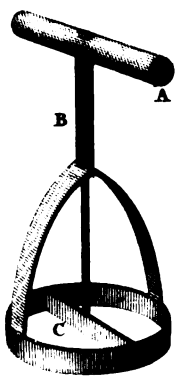
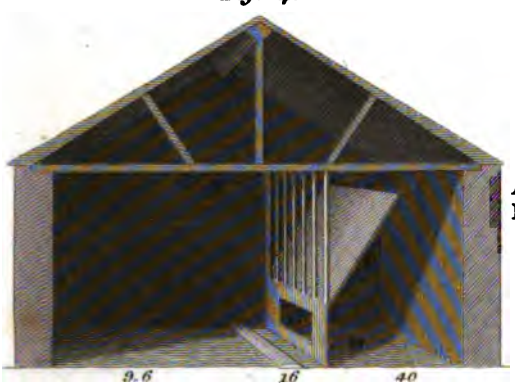


CURD CUTTER.



A *The Handle made of Wood.*
B *Stock of Iron. Cutting part made Oval and it has 1. 2. or 3. cutting pieces as* C.

Fig. 4.



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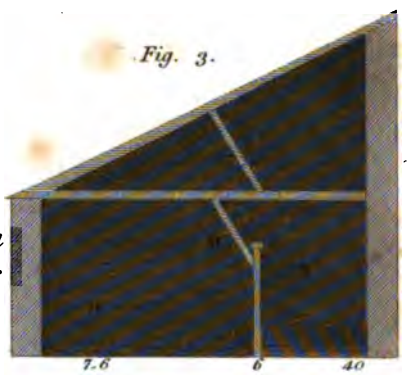

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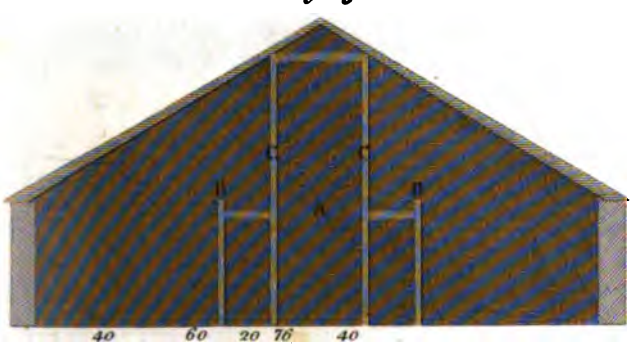

Fig. 6.

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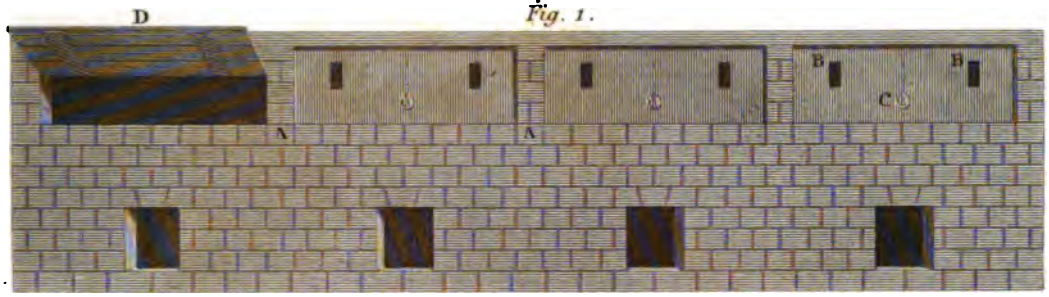
AGRICULTURE.

INTERNAL PARTS OF CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.



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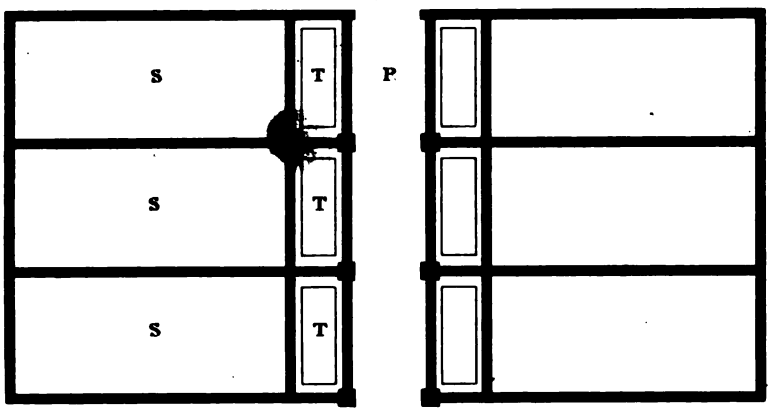
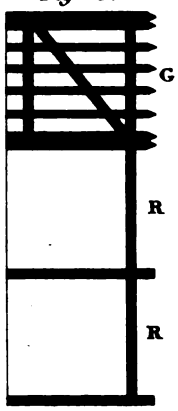


Fig 5.



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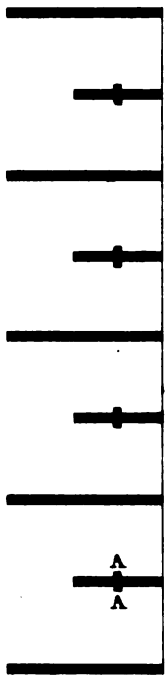

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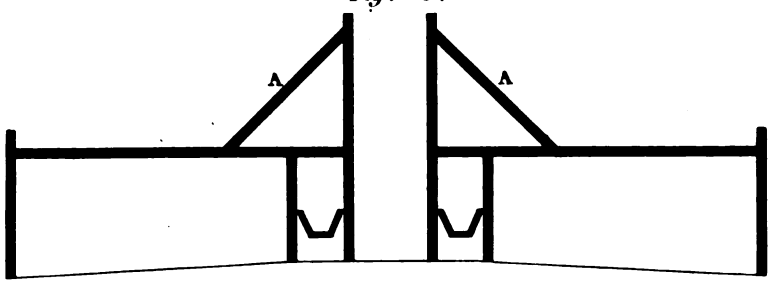

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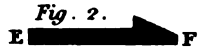

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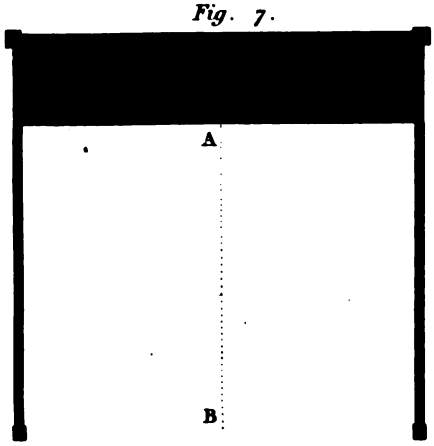

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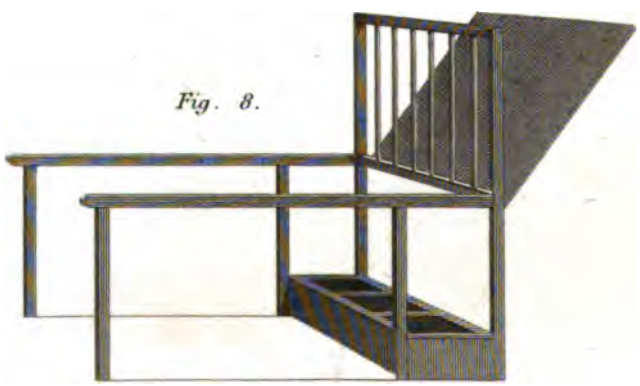

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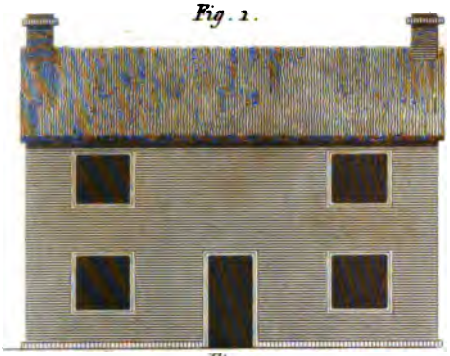
AGRICULTURE.

FARM COTTAGES.

Fig. 1.



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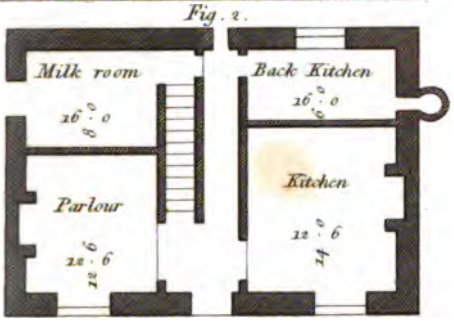


Fig. 12.

Fig. 13.

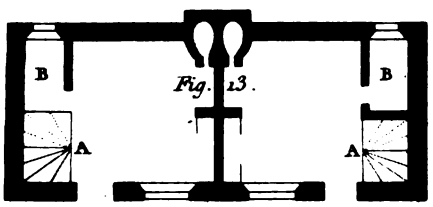
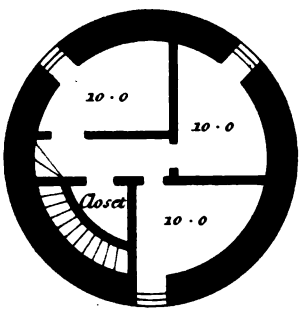


Fig. 3.

Fig. 6.

Fig. 4.



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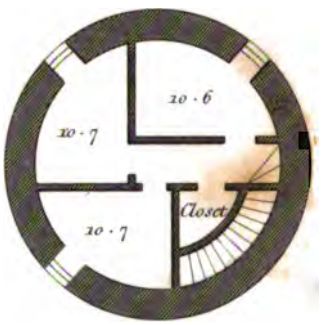

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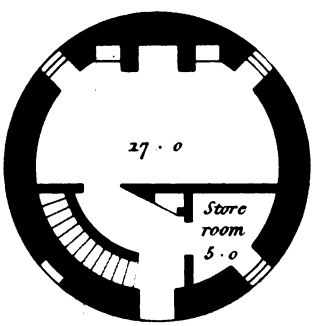

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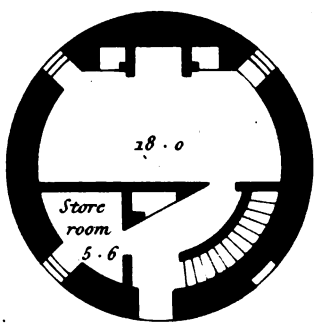

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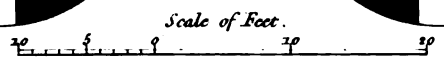

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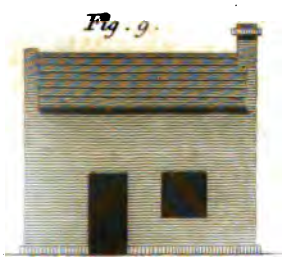

Fig. 10.

Fig. 11.

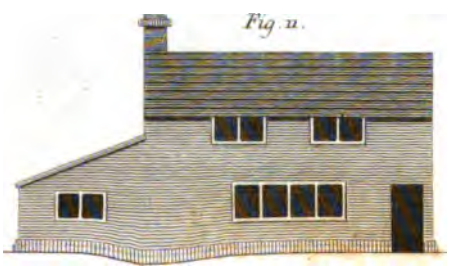

Fig. 14.

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AGRICULTURE.

ORNAMENTAL COTTAGES.

Fig. 3.

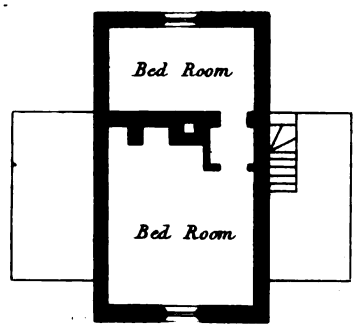


Fig. 1.

Fig. 2.

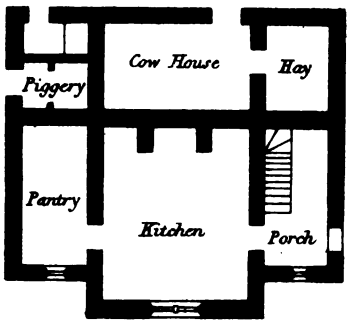


Fig. 6.

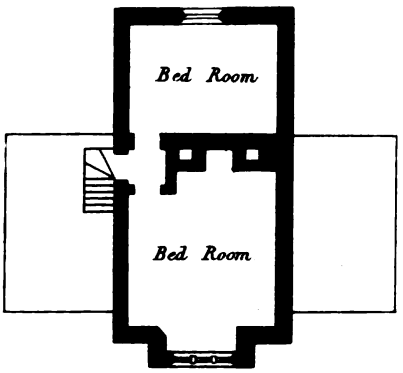


Fig. 4.

Fig. 5.

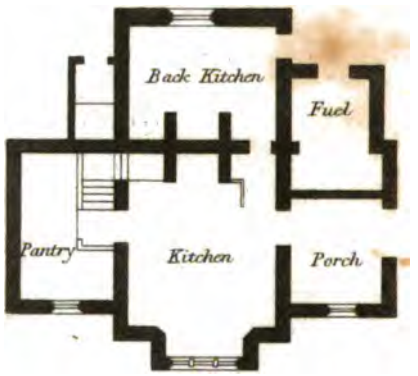
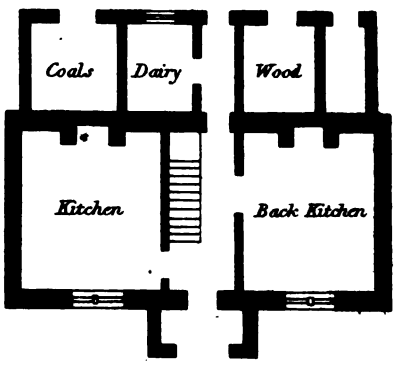


Fig. 7.

Fig. 8.



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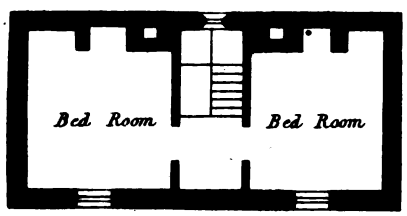

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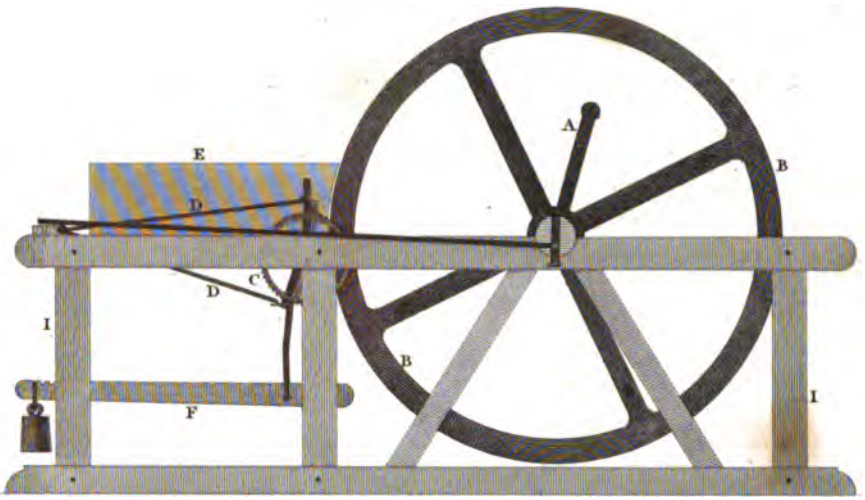
Engraved by Wilson Lowry

Mr. Salmon's CHAFF CUTTER, as made by Mr. Rowntree.

Fig. 2.

Elevation of the End.

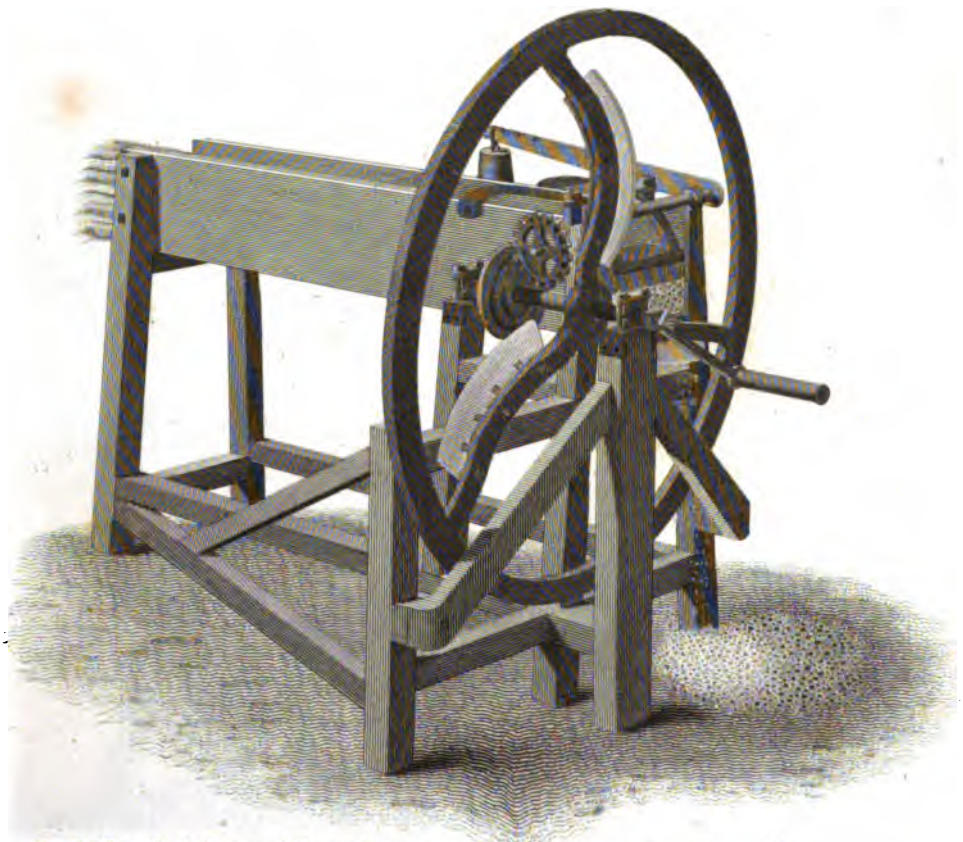
Fig. 1.



Elevation taken sideways.

Fig. 3.

Mr. Mc. Dougal's Chaff Cutter.



In viewing Fig. 3. the eye of the spectator should be placed at 12 Inc. distance from

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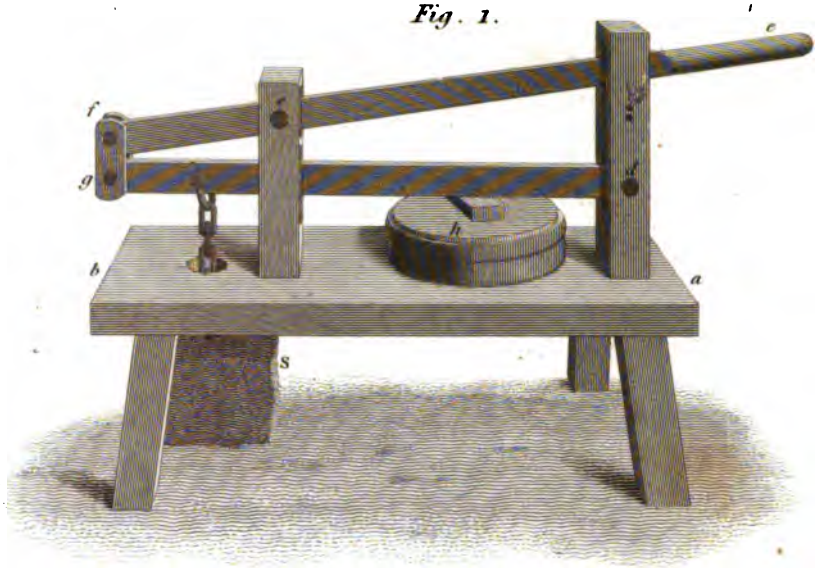
CHEESE PRESS, AND CHURNS.

Fig. 2.

Fig. 1.



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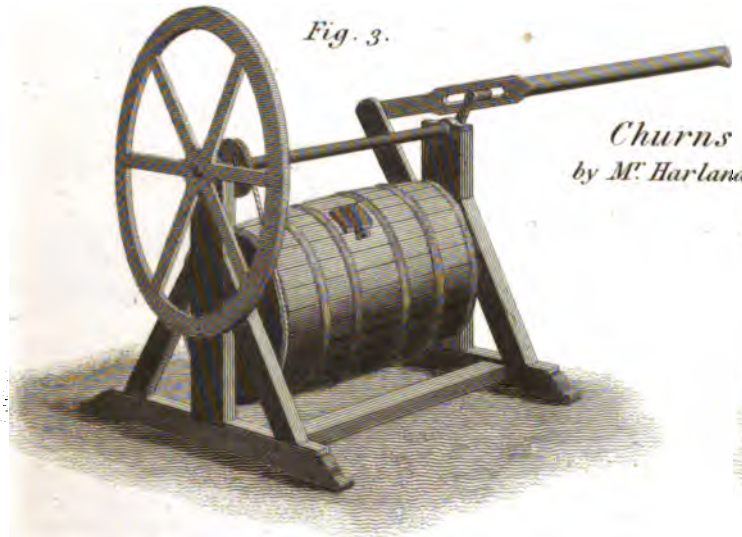
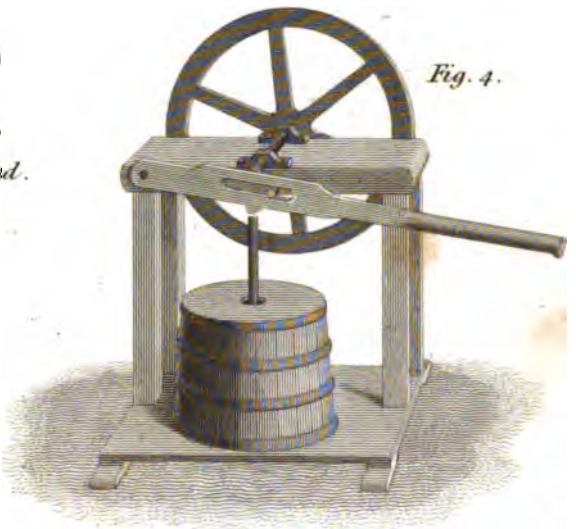


Churns
by Mr. Harland.

Fig. 4.



by Mr. Rowntree.

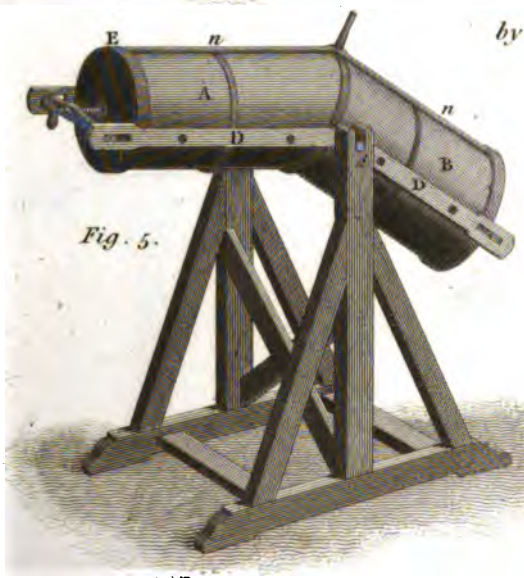
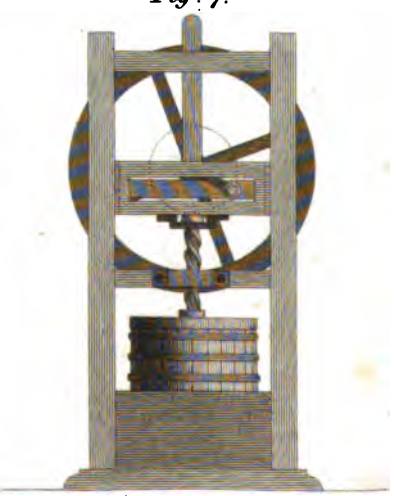


Fig. 5.

Fig. 6.

Fig. 7.



J. Farey Junr. delin. Published as the Act directs, 1814, by Longman, Hurst, Rees, Orme, and Co. Paternoster Row. Engraved by W. Lowry.

Fig. 2.

Cottage Fire Place.

Fig. 1.

Fig. 3.

Fig. 4.

Cottage Stair Case.

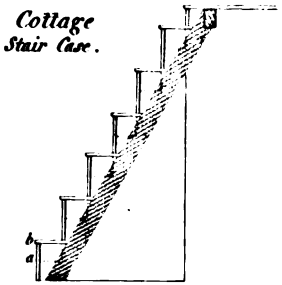
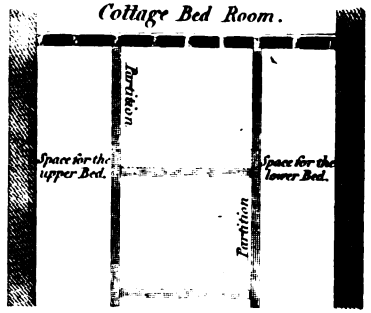


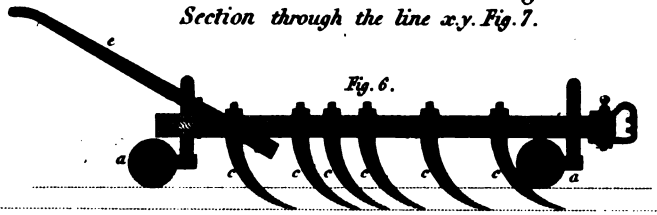
Fig. 5.

Cottage Bed Room.



Mr. AMOS's Couch Grass Drag.
Section through the line x.y. Fig. 7.

Fig. 6.



Mr. AMOS's Couch Grass Rake.
Section through the line u.z. Fig. 10.

Fig. 9.

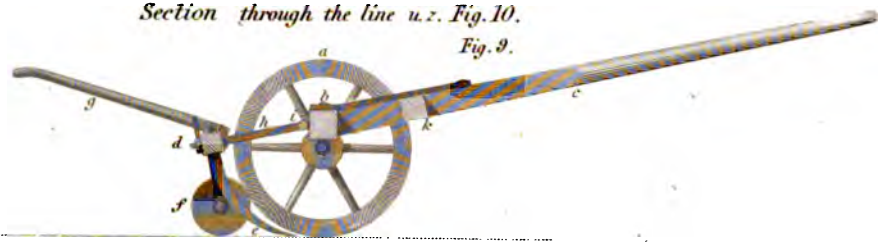
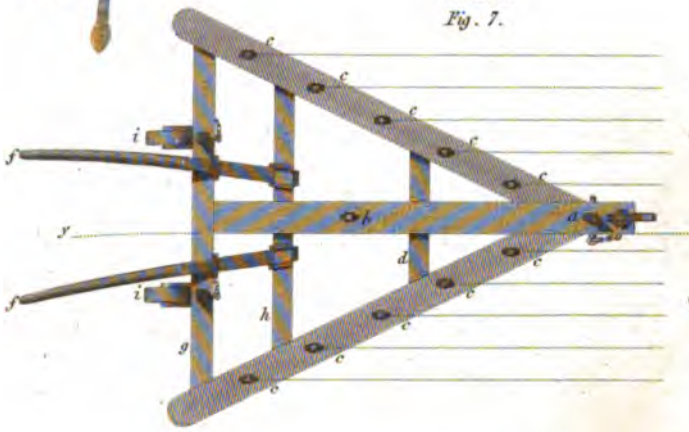
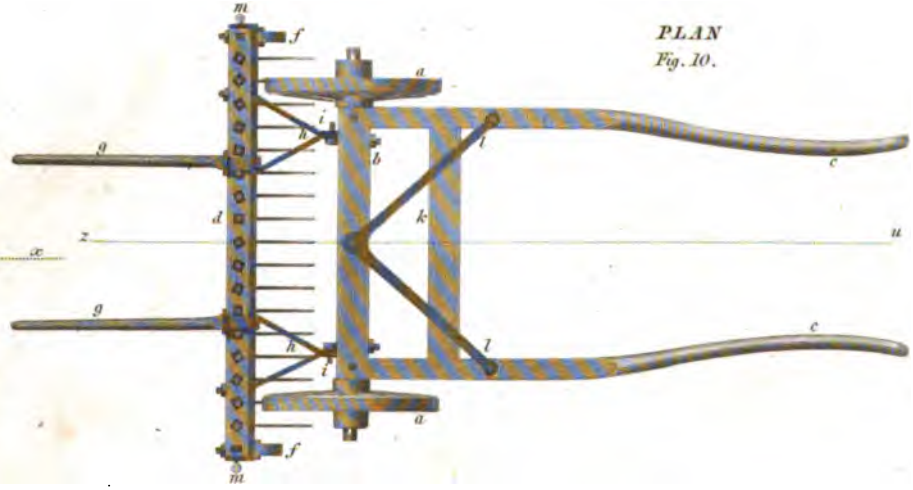


Fig. 8.

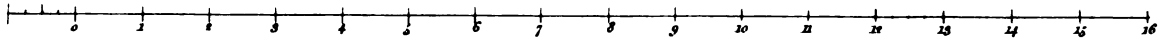
PLAN
Fig. 7.



PLAN
Fig. 10.



Scale of Feet.



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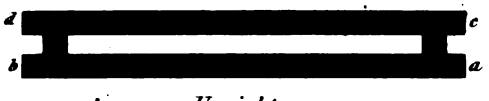
CULTIVATORS.

Fig. 2.

Plan.



Upright.

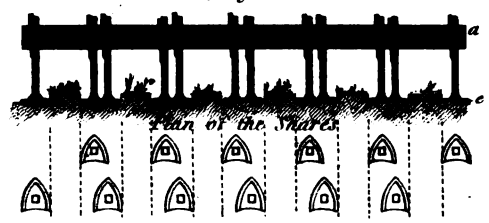


Fig. 1.

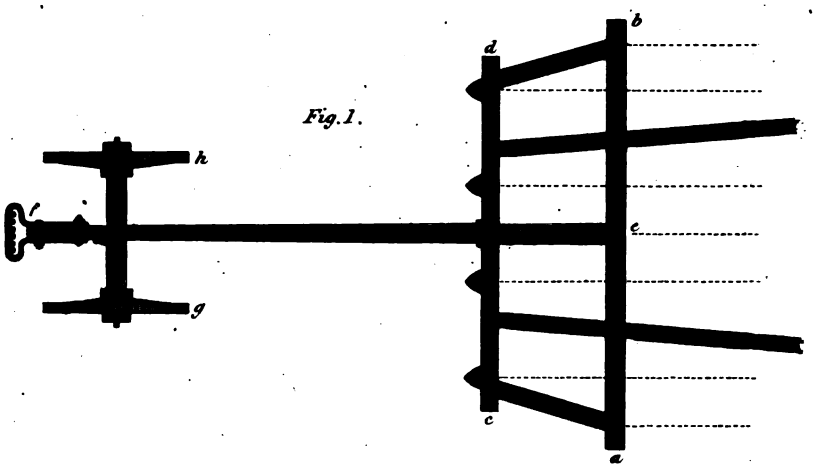


Fig. 4.

Mr. C. Western's Double Cultivator.

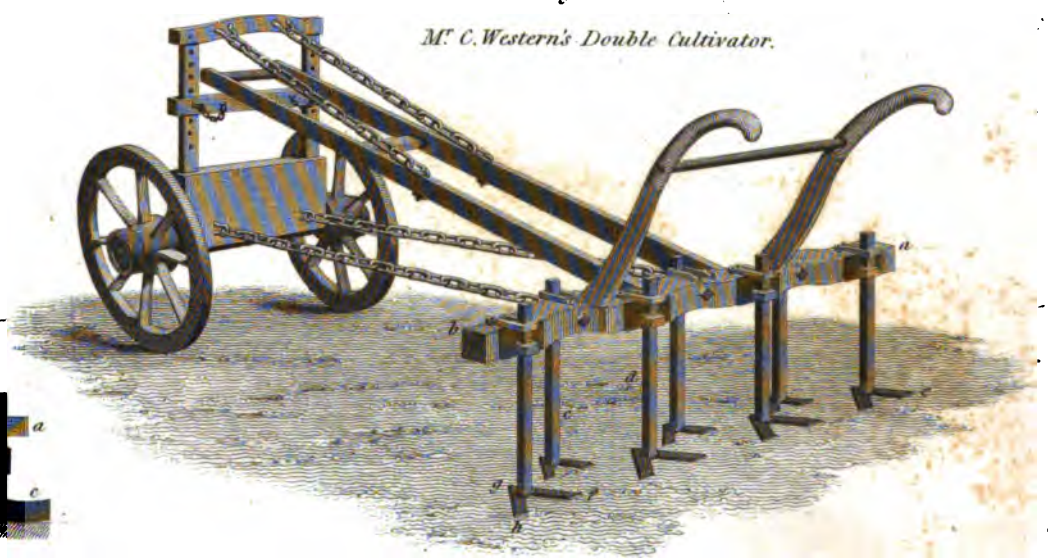
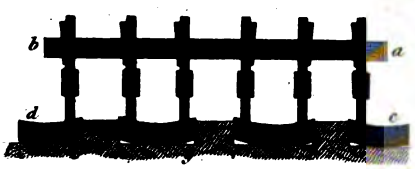


Fig. 3.

Mr. Roger's Bean Cultivator.



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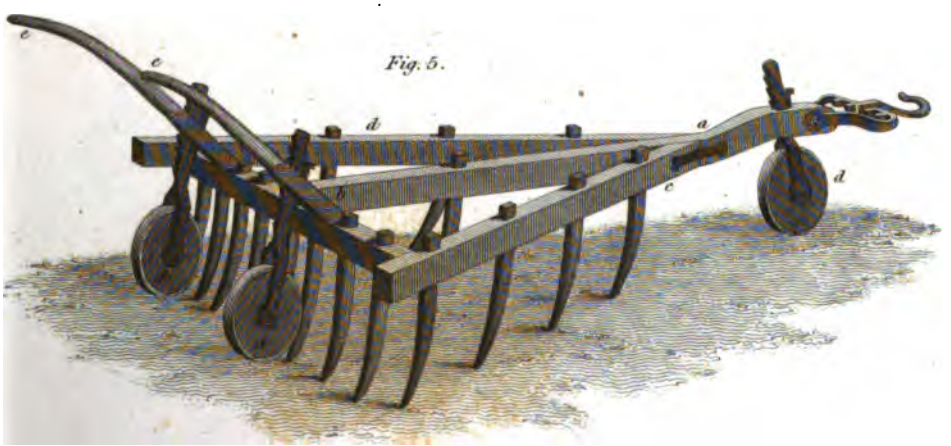
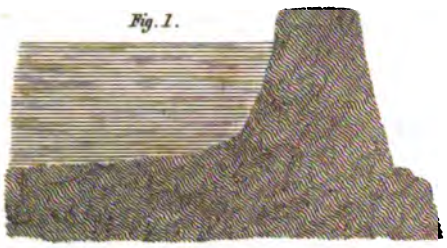


Farey Jun. del. Published as the Act directs, 1825, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row, London. Lowry sculp.

AGRICULTURE.

EMBANKMENTS.

Fig. 1.



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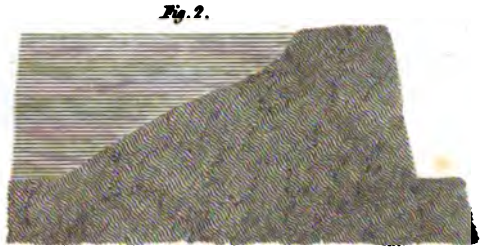


Fig. 3.

Fig. 4.

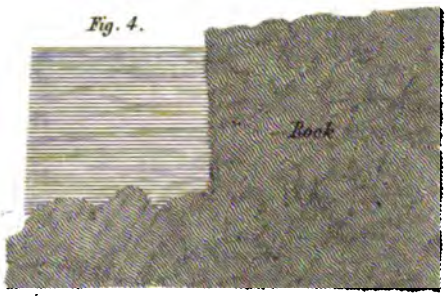
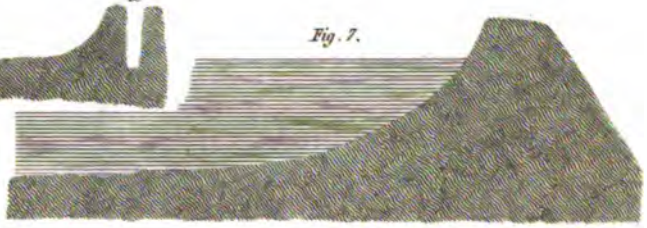


Fig. 5.

Fig. 7.



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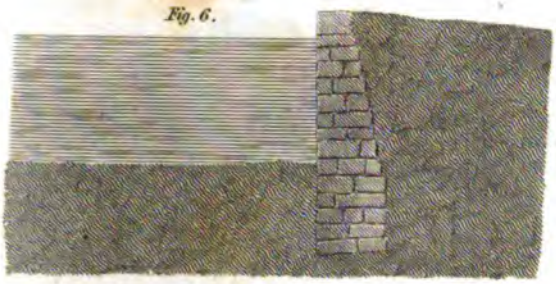

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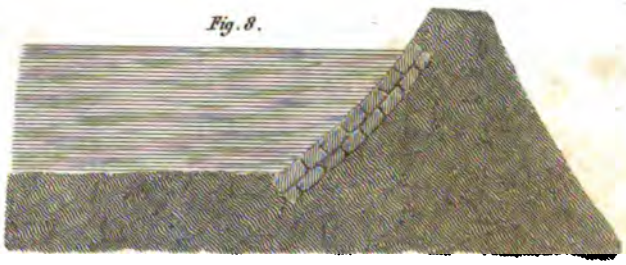
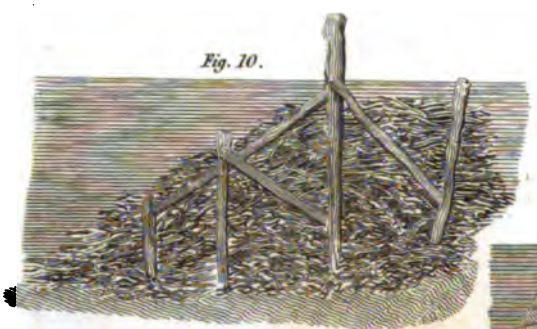


Fig. 9.

Fig. 10.



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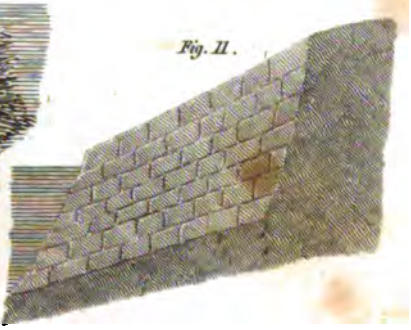

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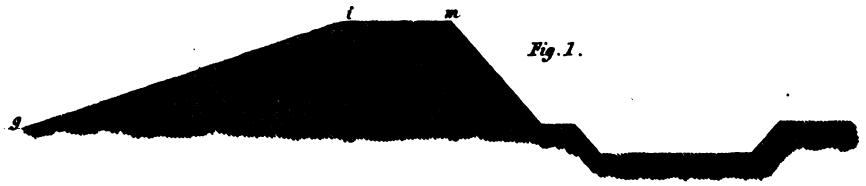
EMBANKMENTS.



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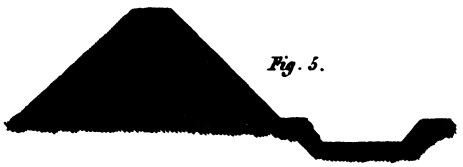

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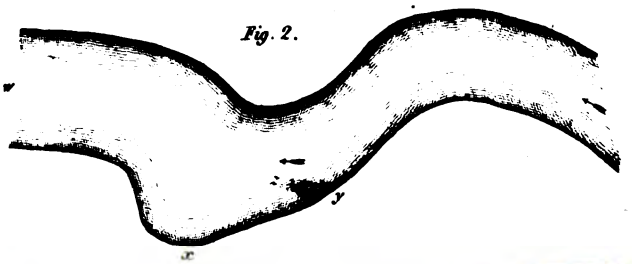

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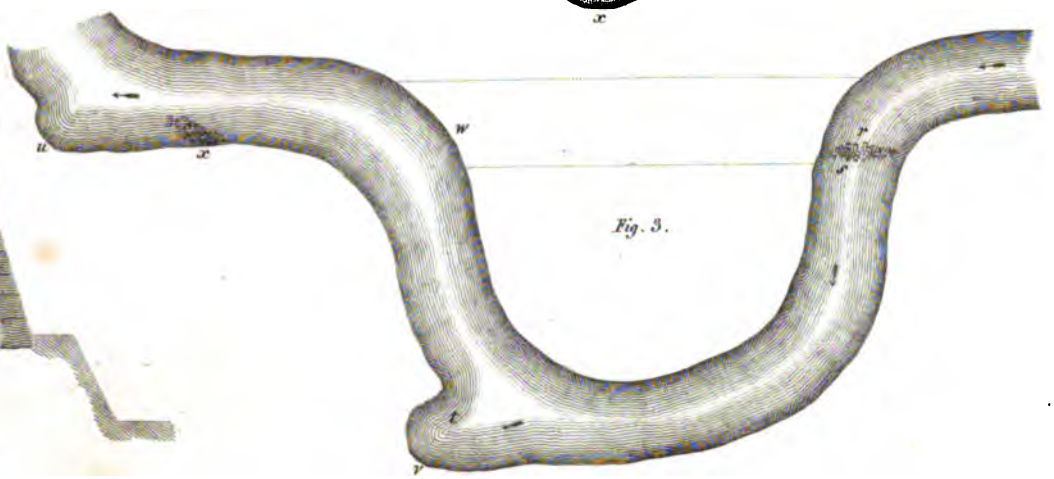

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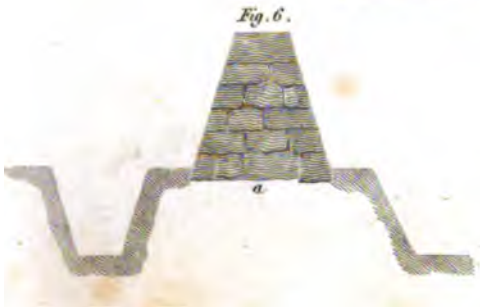

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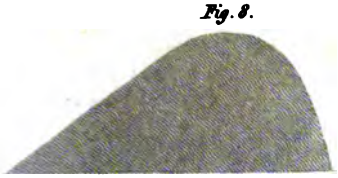

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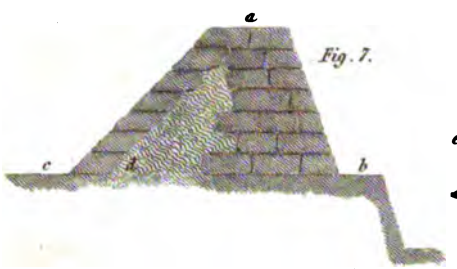

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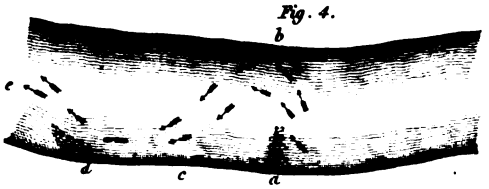

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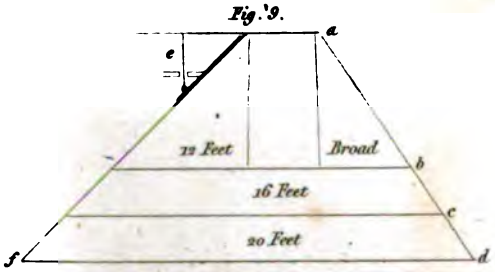

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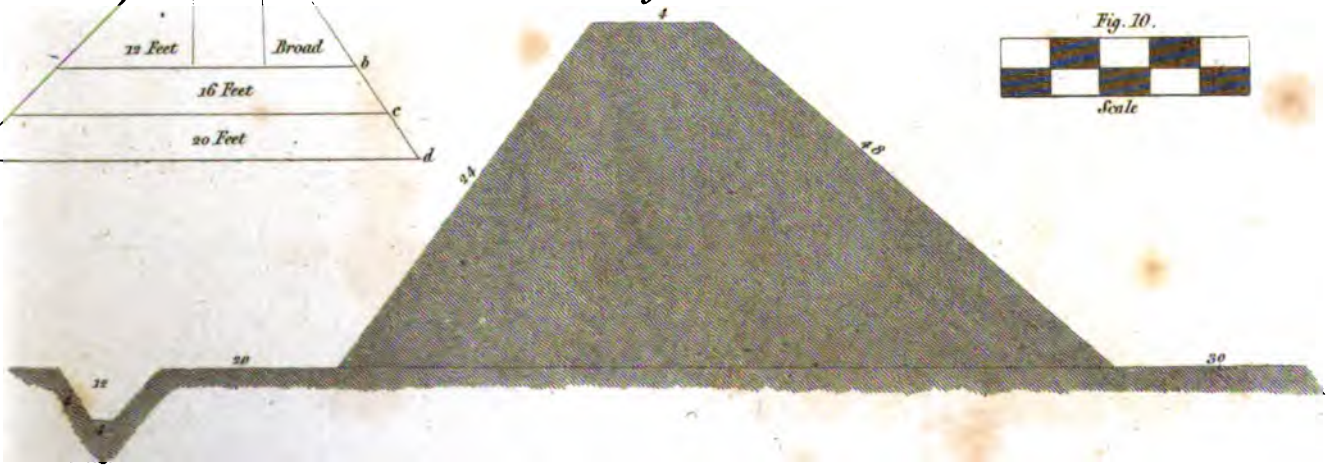

Fig. 11.

Fig. 10.

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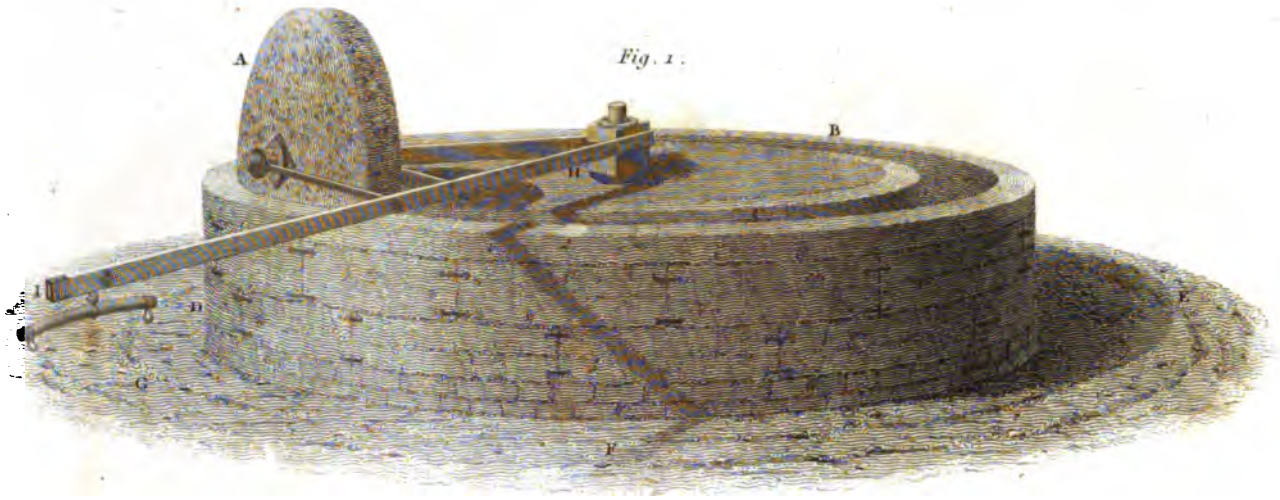
CYDER MILL and PRESS.

Fig. 1.



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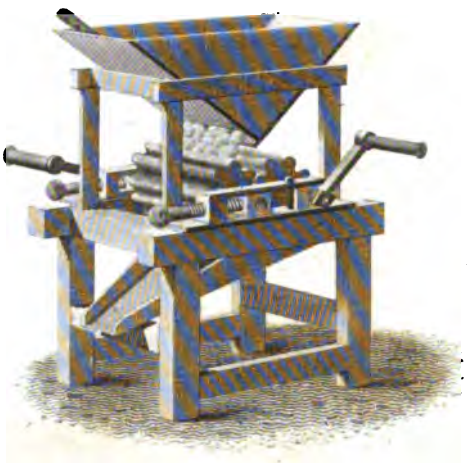

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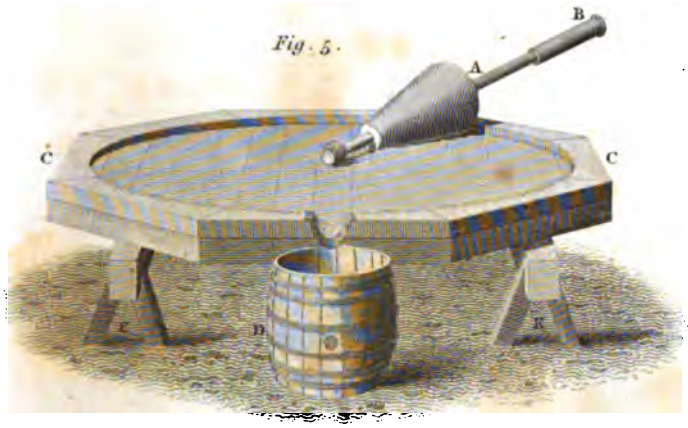
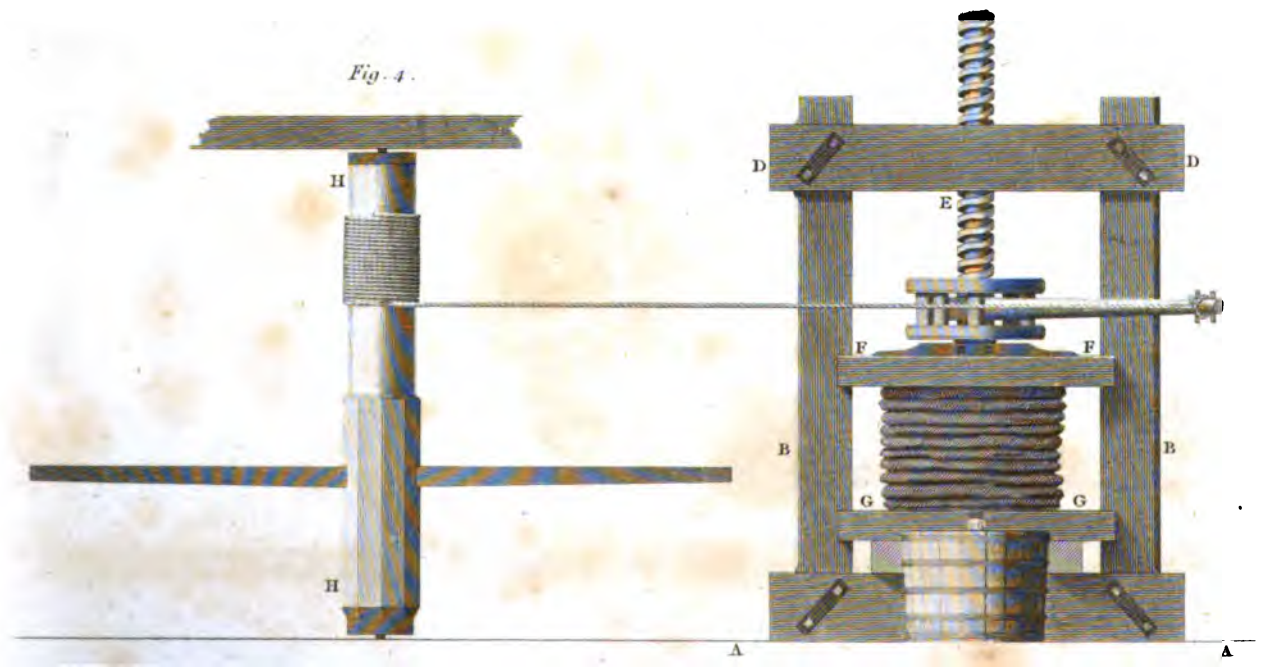


Fig. 3.

Fig. 4.



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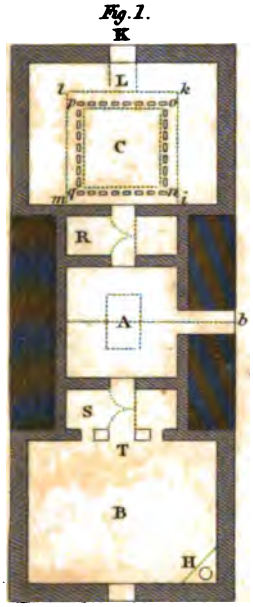
AGRICULTURE.

DAIRY HOUSES.

Fig. 2.

Fig. 1.



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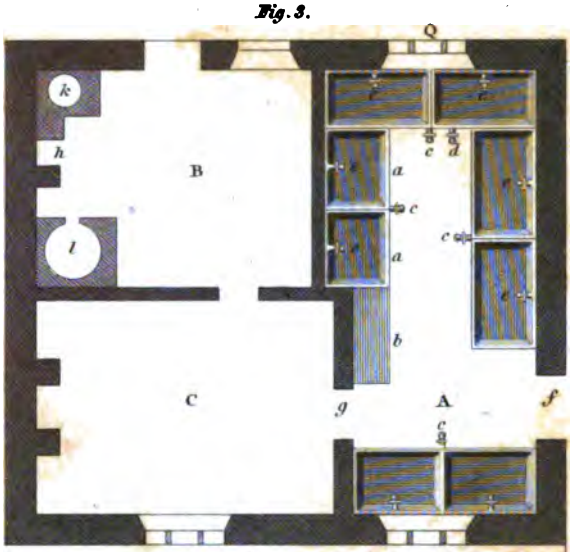

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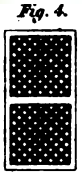

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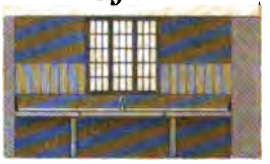

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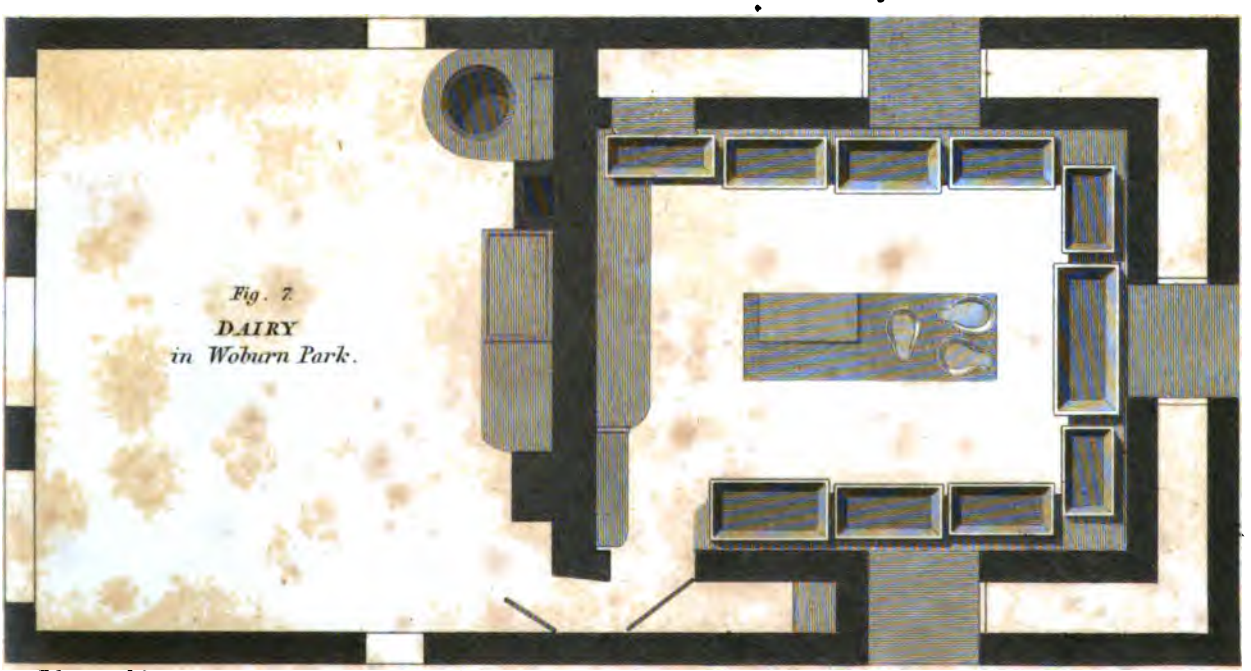

Fig. 7
DAIRY
in Woburn Park.

Scale of Feet.

0 5 10 15 20 25 30 35 40 45

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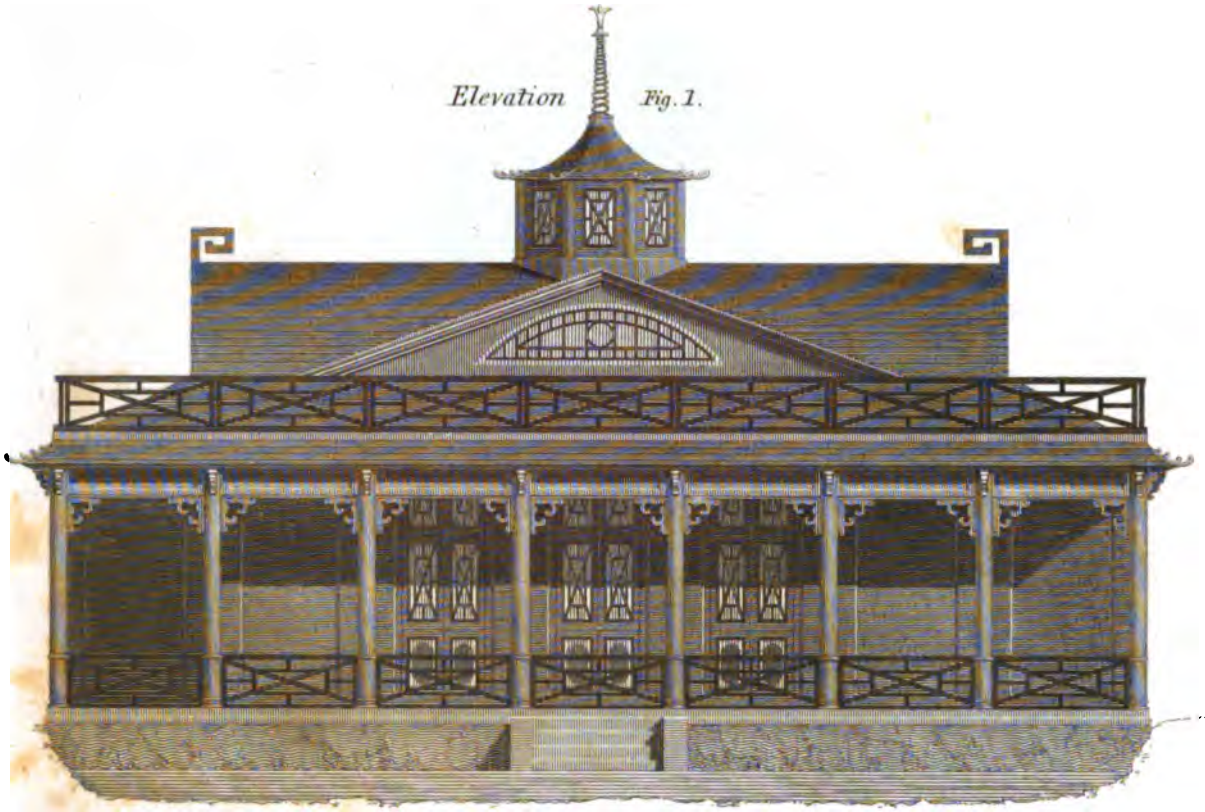
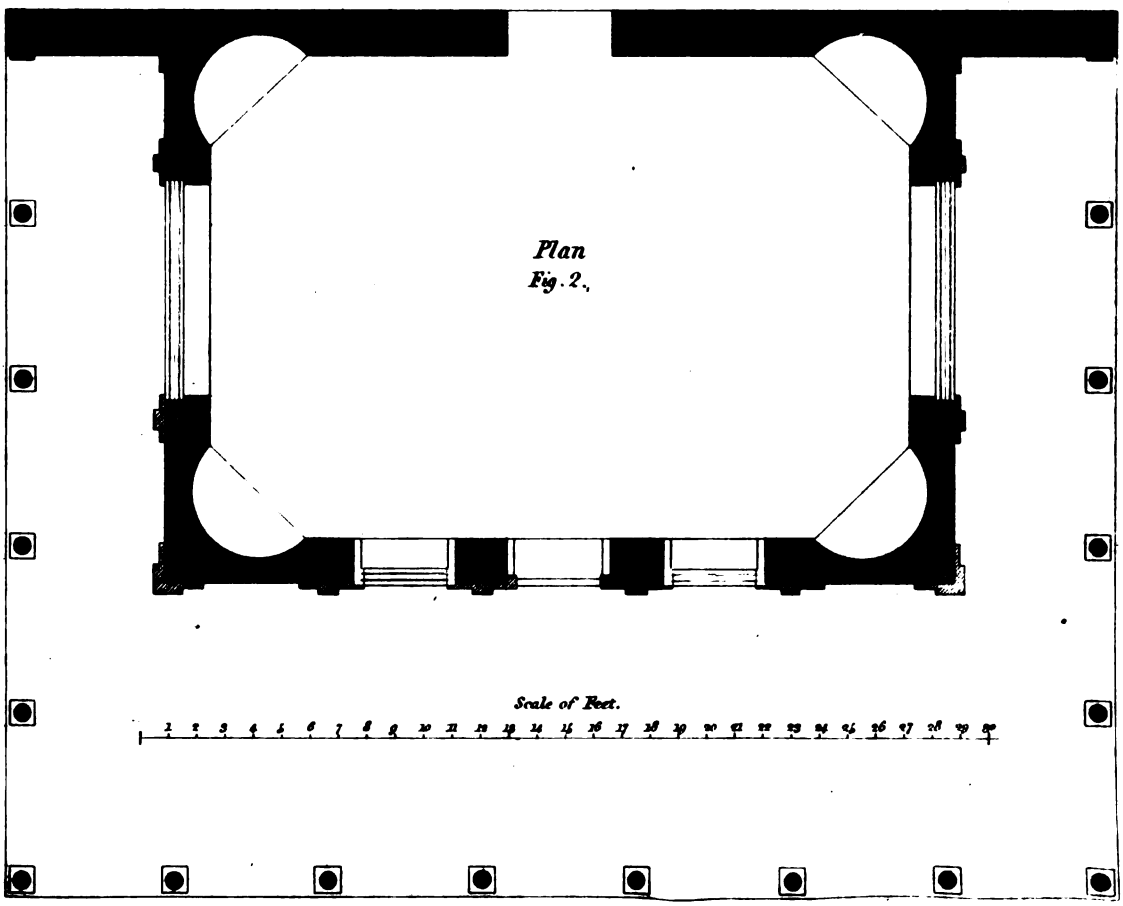
DAIRY AT WOOBURN ABBEY.



Elevation *Fig. 1.*



V. Farey Junr. delin.

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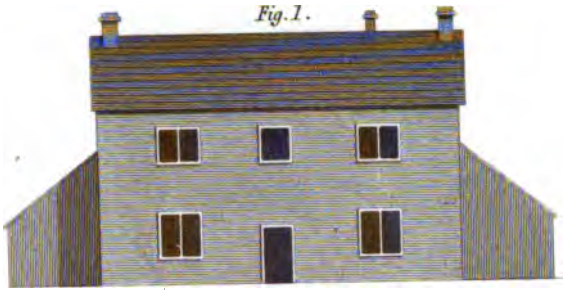
AGRICULTURE.

GRASS AND DAIRY FARM BUILDINGS.

Fig. 1.



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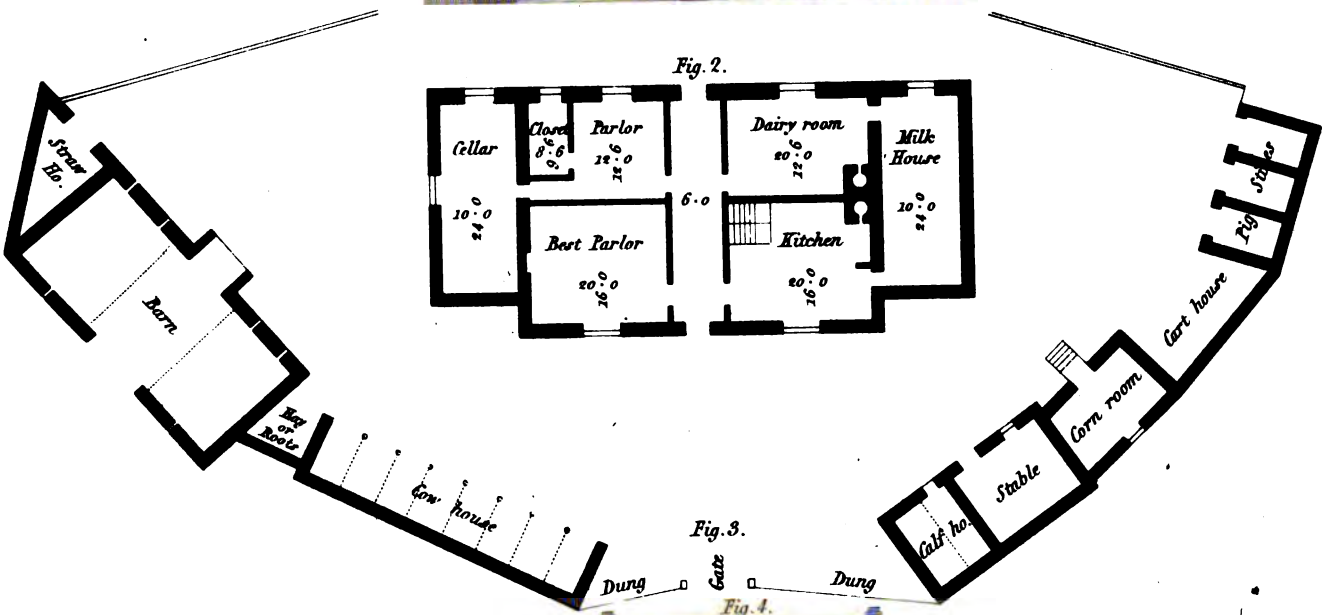
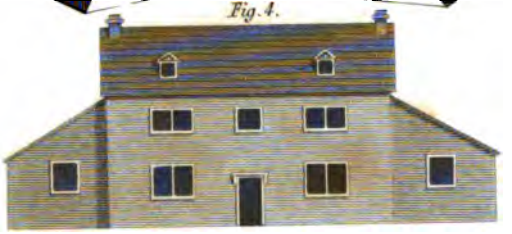


Fig. 3.

Fig. 4.



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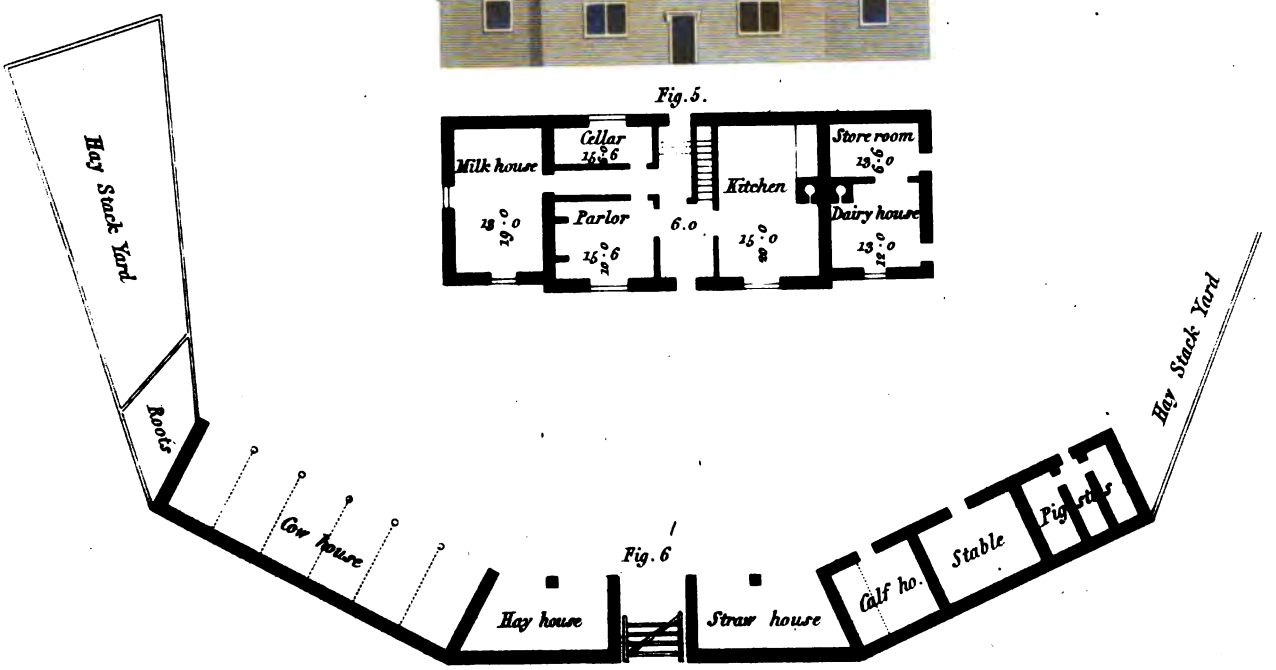

Fig. 6

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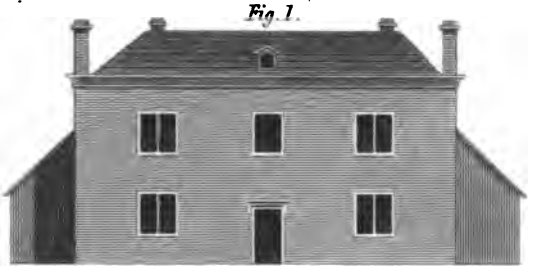
AGRICULTURE.

CORN AND MIXED FARM BUILDINGS.

Fig. 1.



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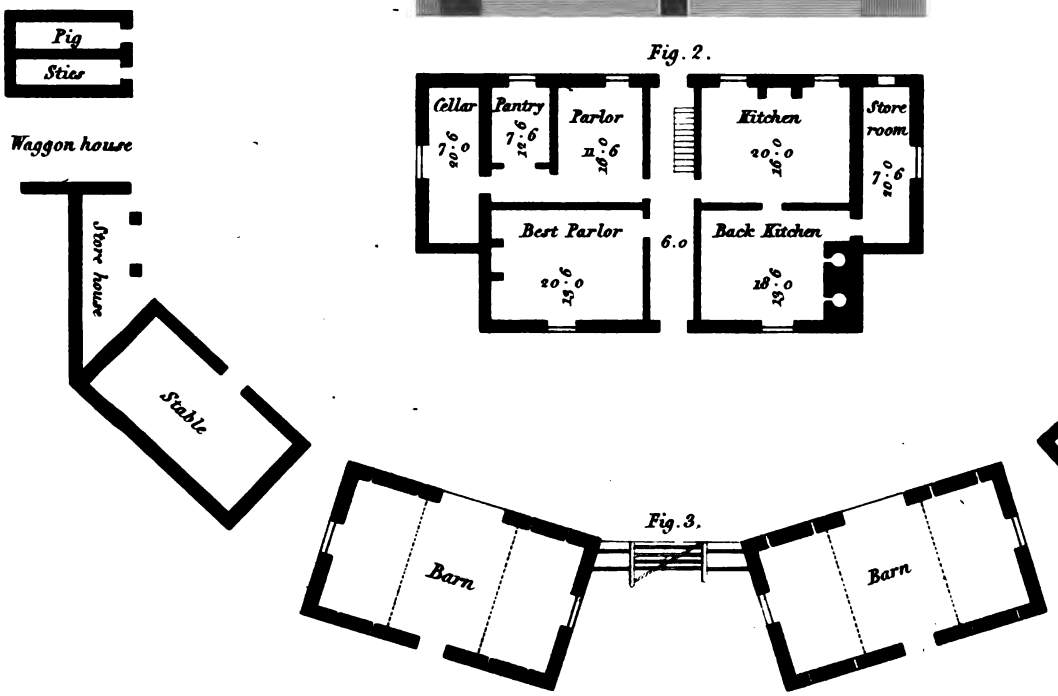

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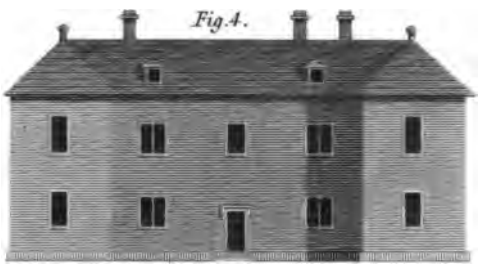

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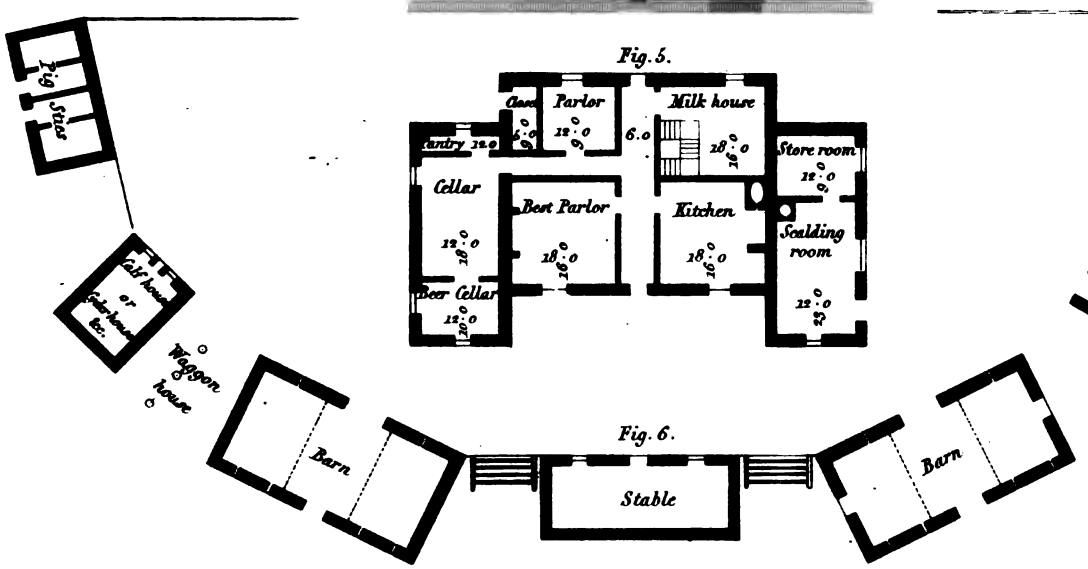

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FARM HOUSES.

Fig. 4.

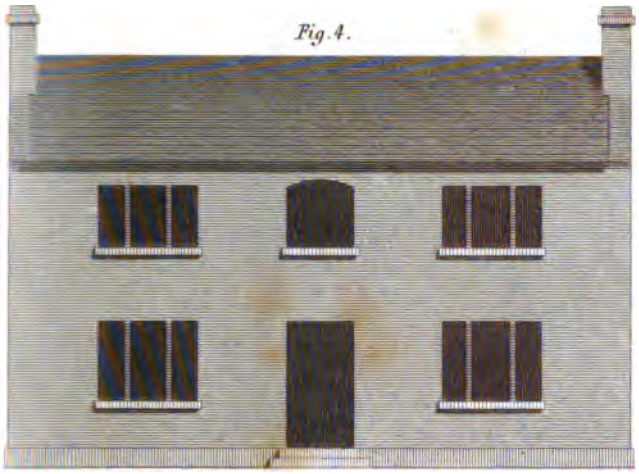
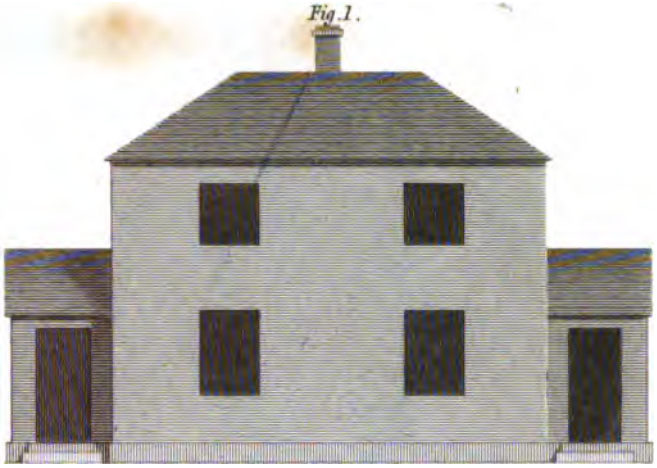


Fig. 1.



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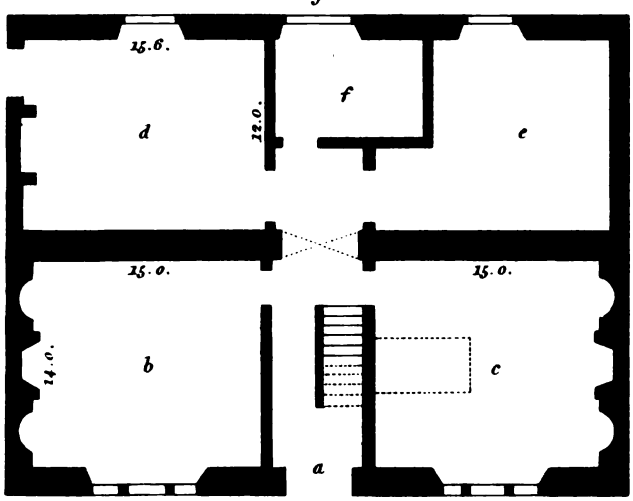

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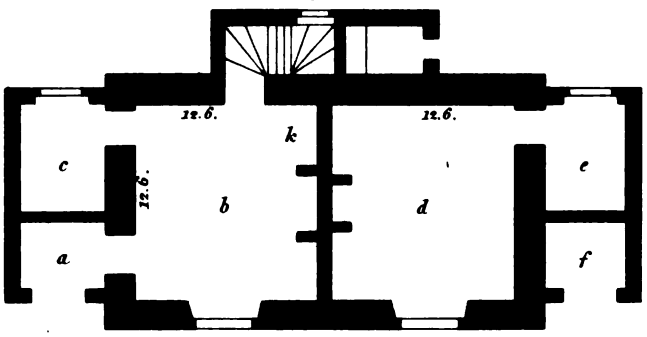

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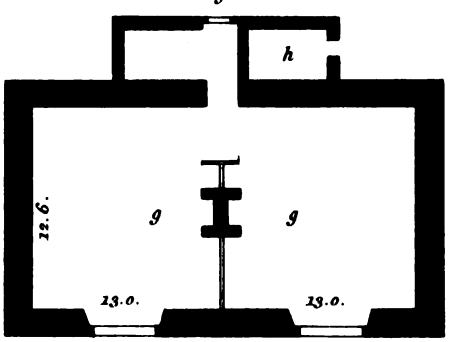

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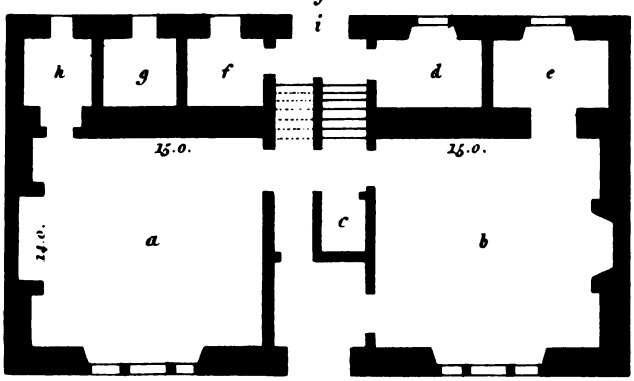

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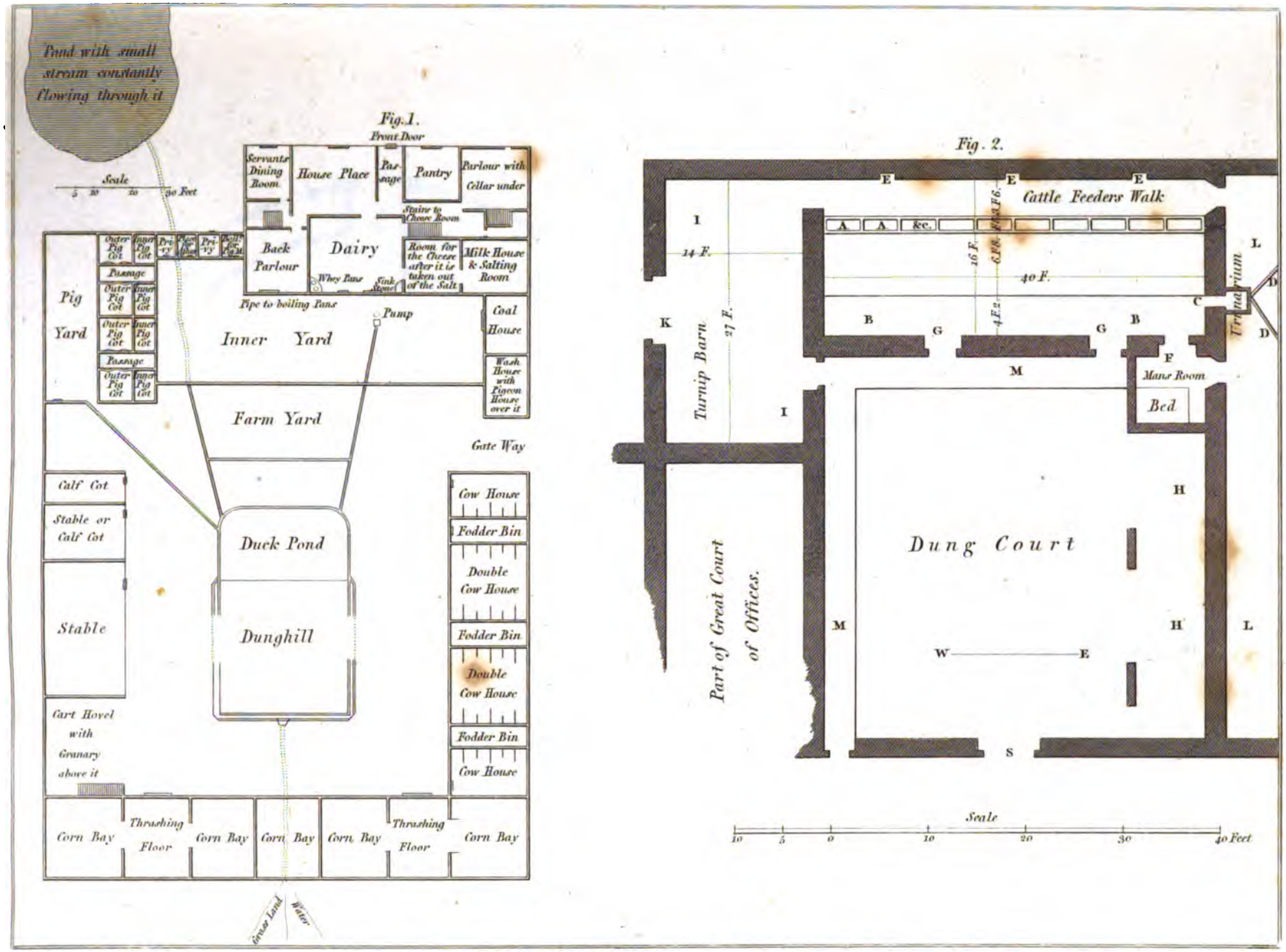
PLANS OF SQUARE FARM YARDS.



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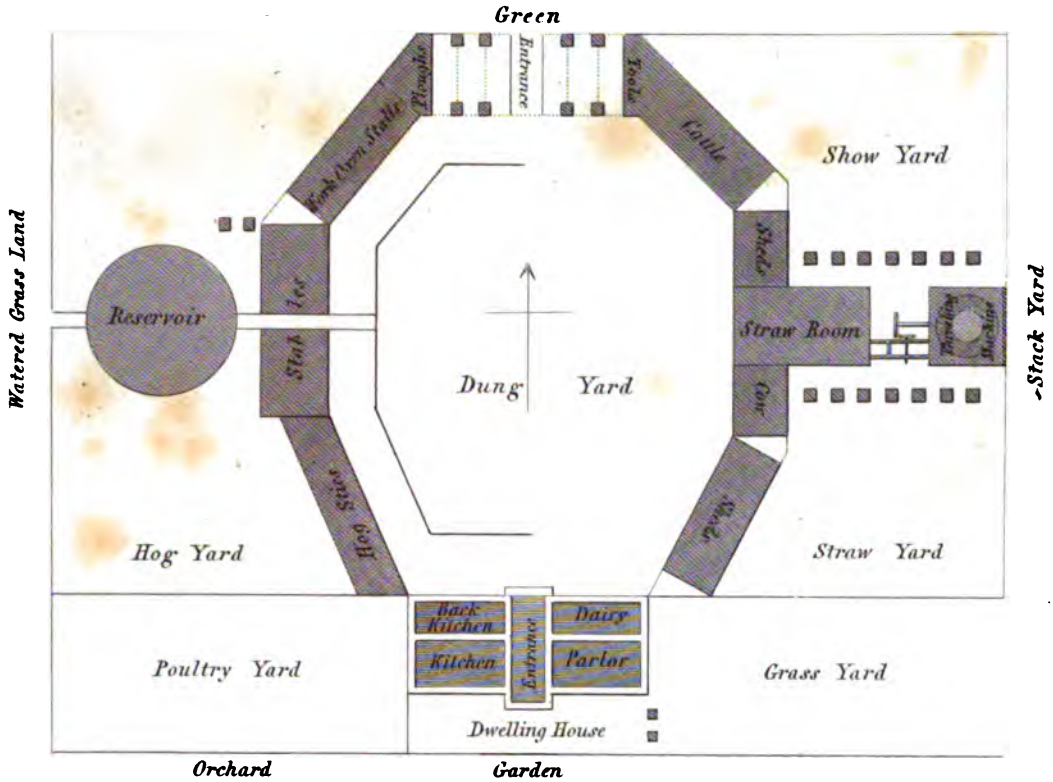
PLANS OF ANGULAR AND CIRCULAR FARM YARDS.



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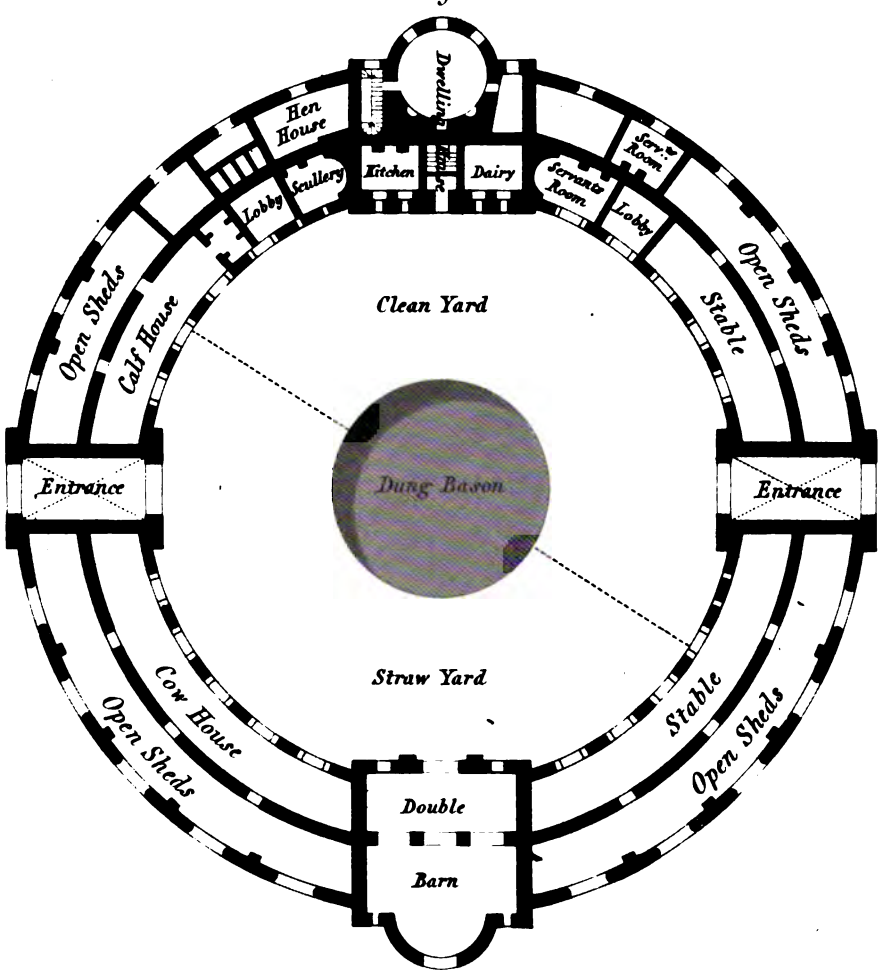

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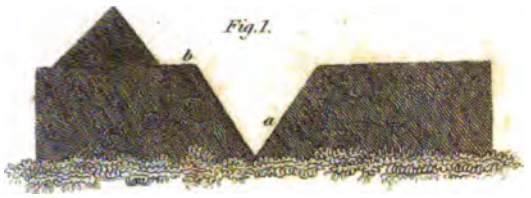

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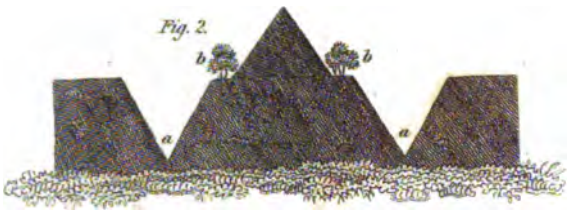

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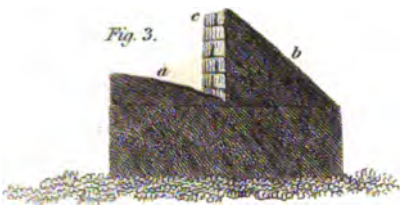

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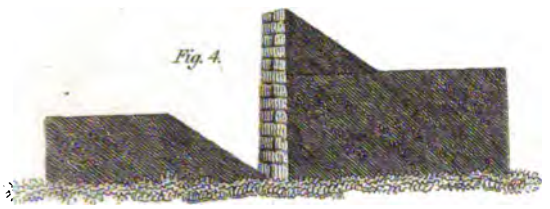

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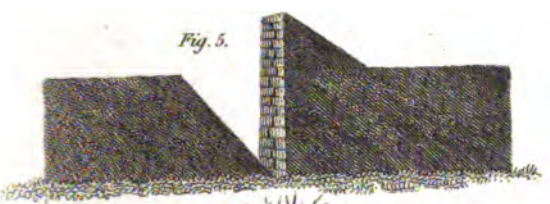

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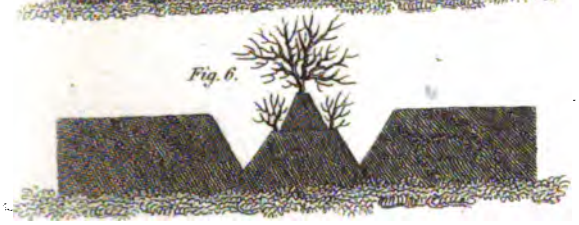

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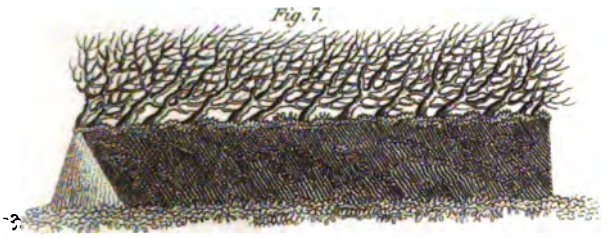

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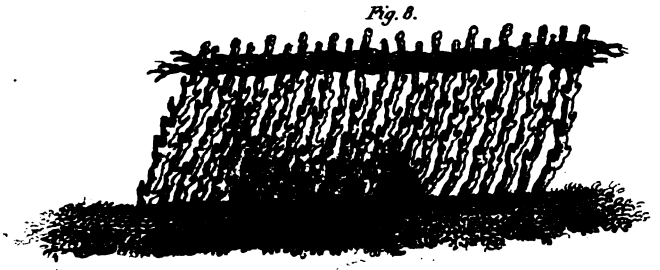

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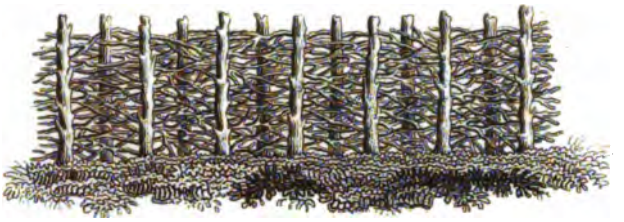

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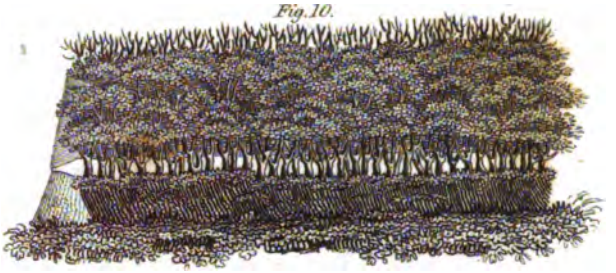

Fig. 11.

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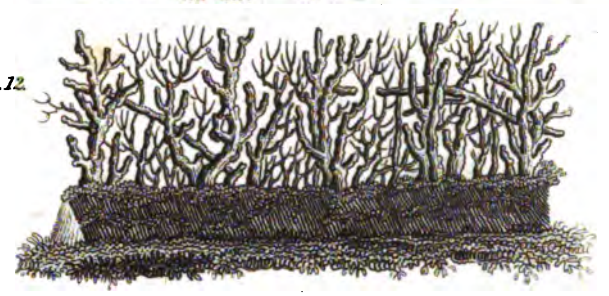

Fig. 13.

Fig. 14.

Fig. 15.

Fig. 16.

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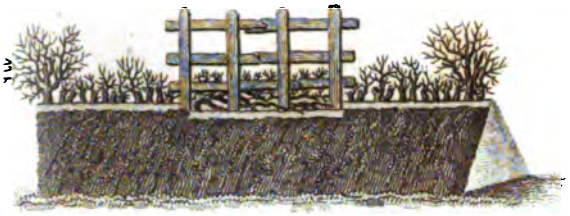
Fig. 1.



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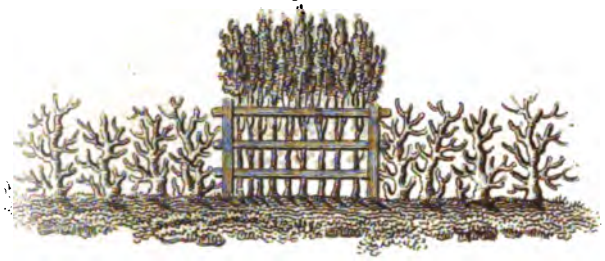

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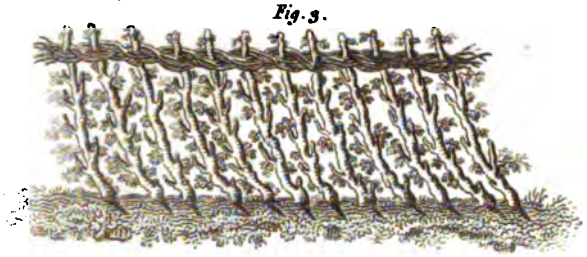

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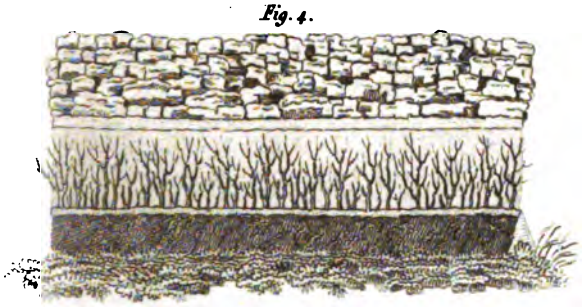

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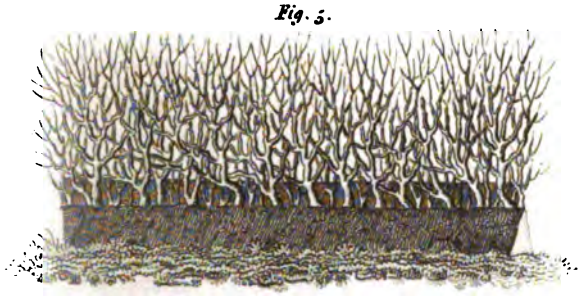

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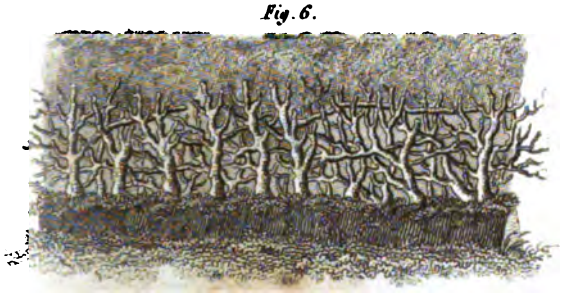

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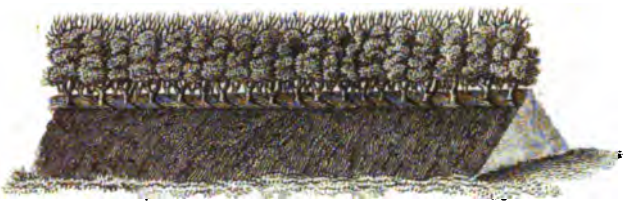

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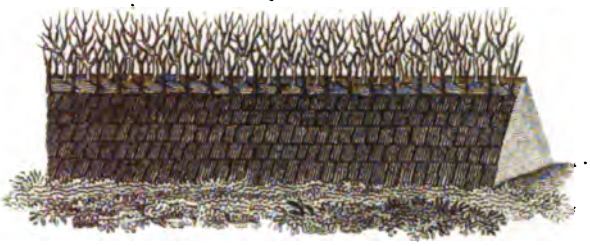

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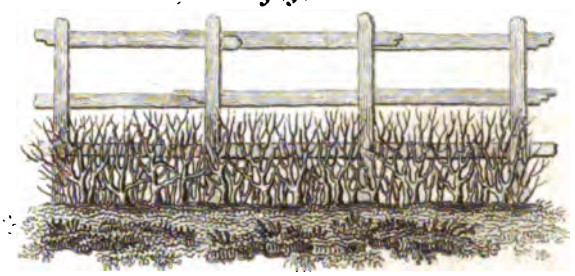

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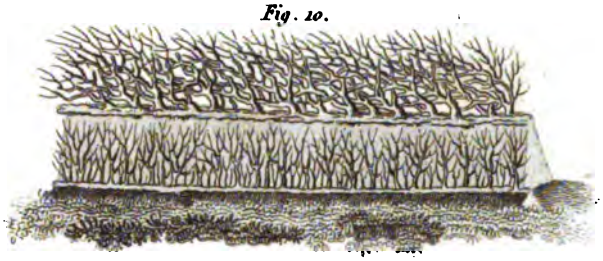

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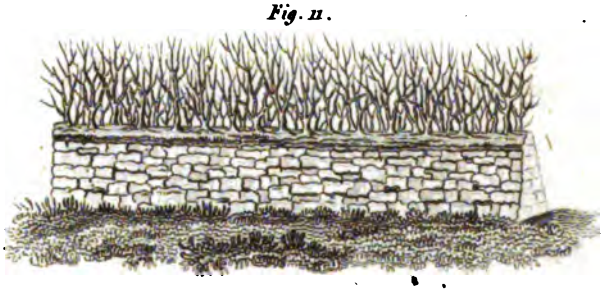

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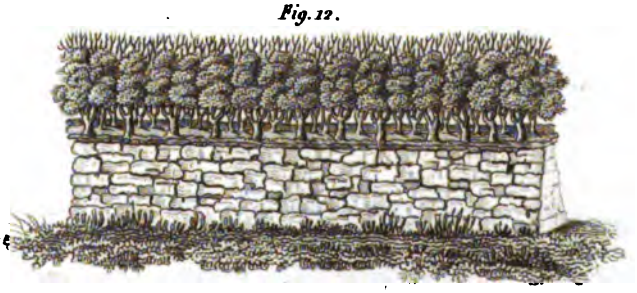

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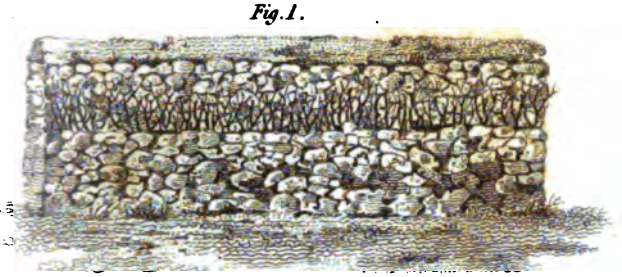

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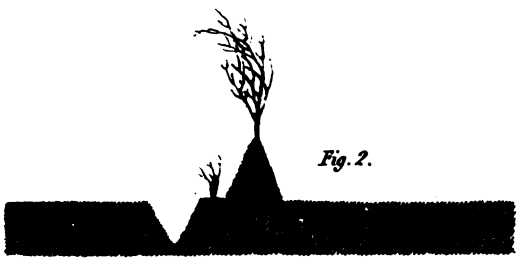

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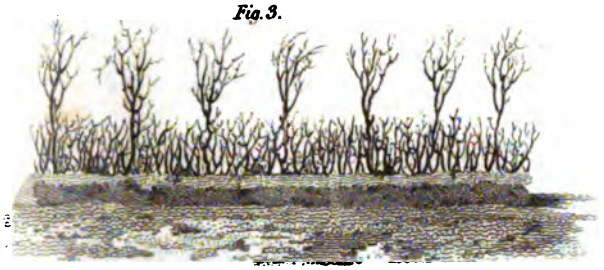

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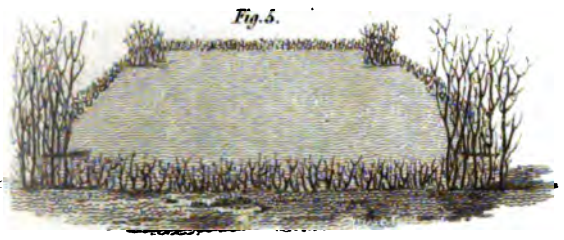

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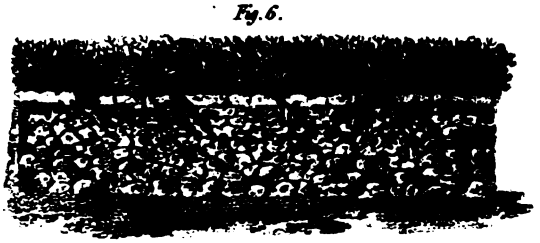

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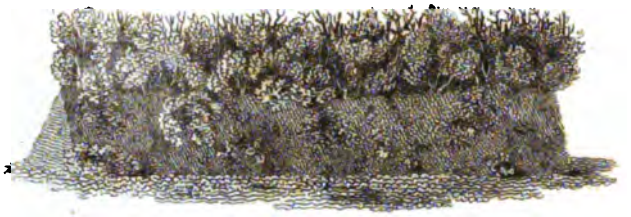

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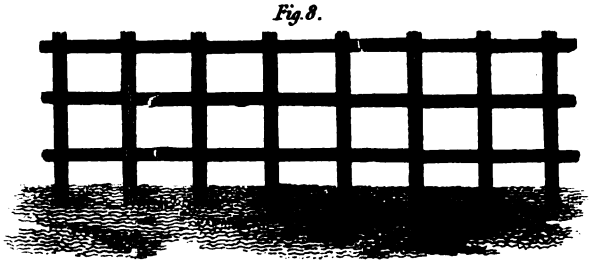

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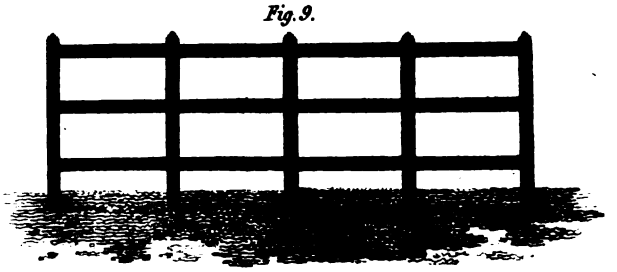

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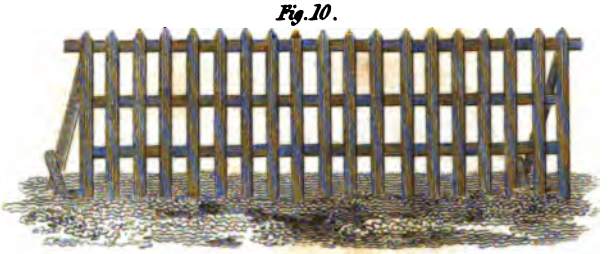

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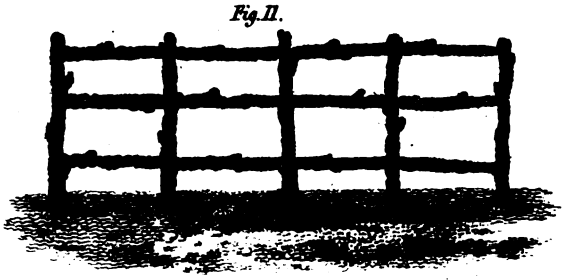
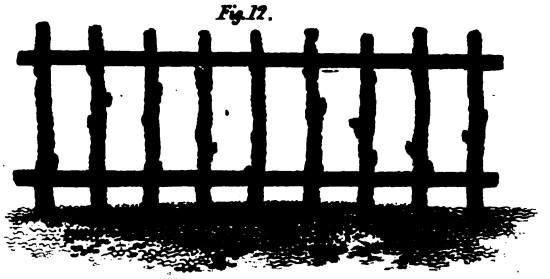


Fig.12.



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FENCES.

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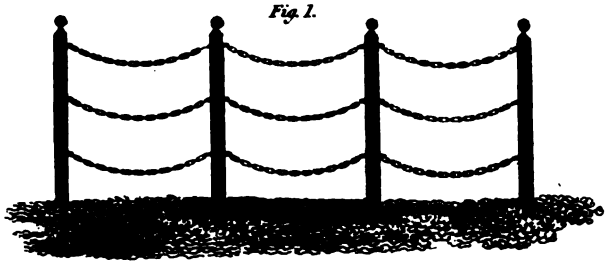

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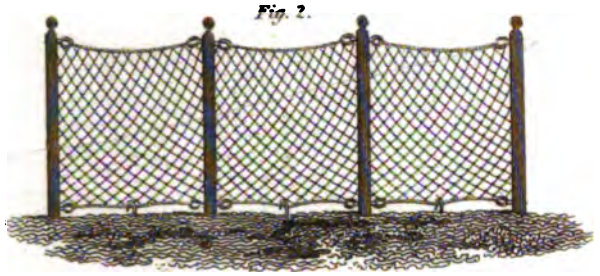

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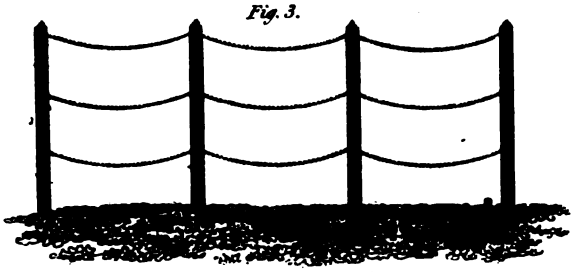

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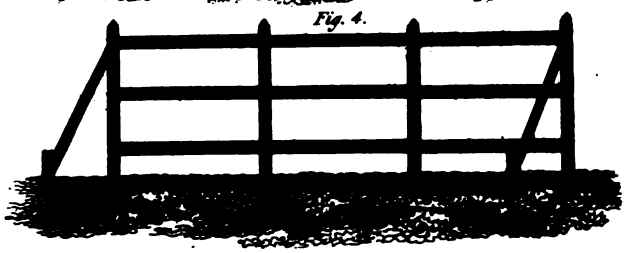

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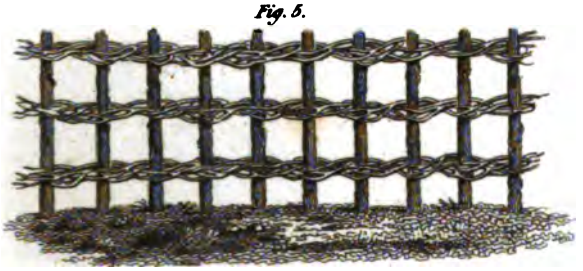

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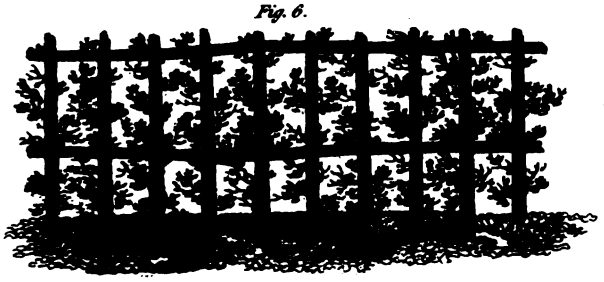

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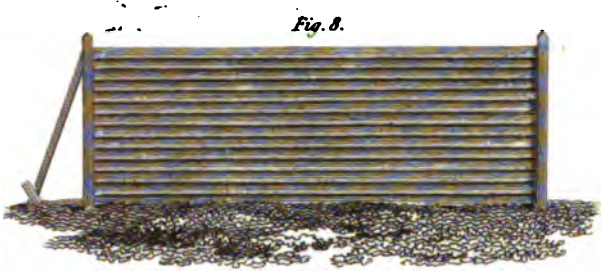

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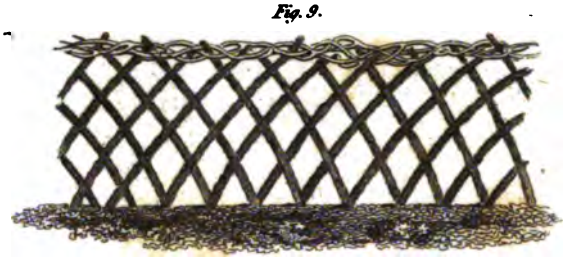

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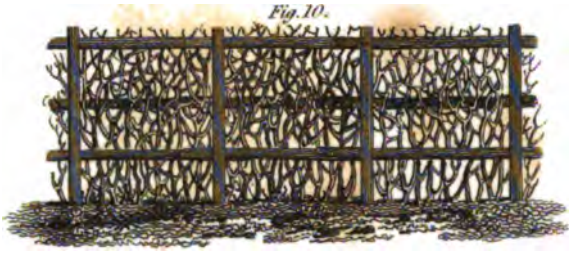

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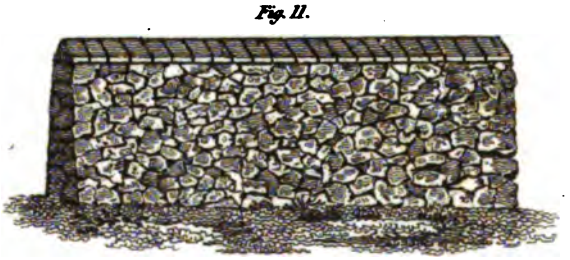

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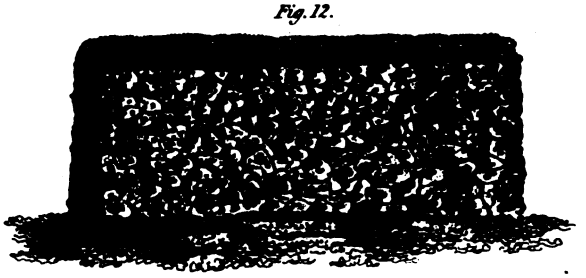

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FENCES.

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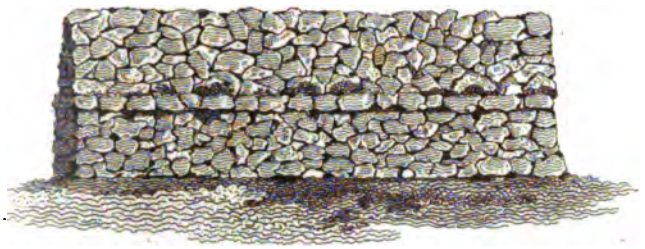

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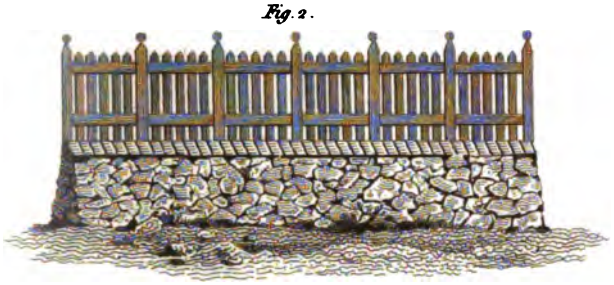

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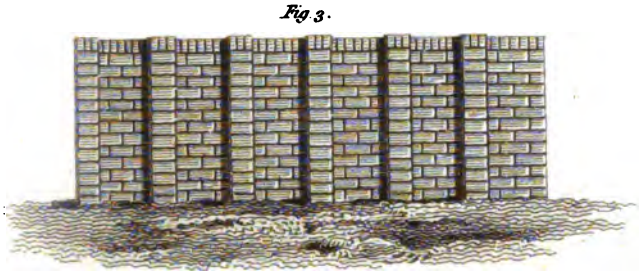

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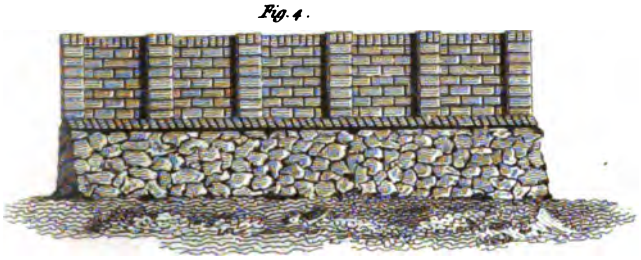

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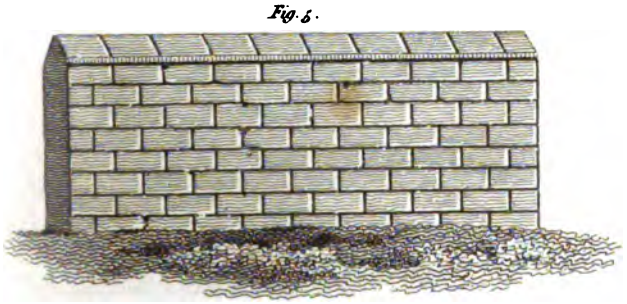

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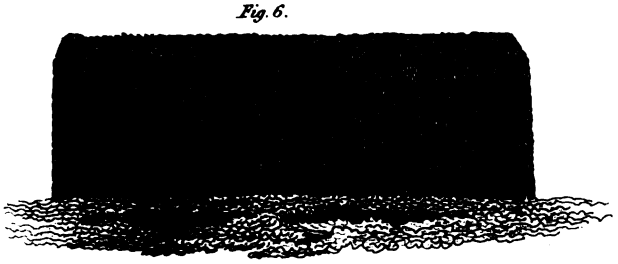

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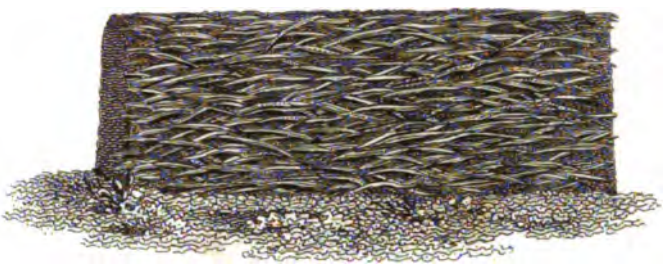

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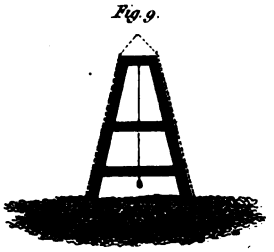

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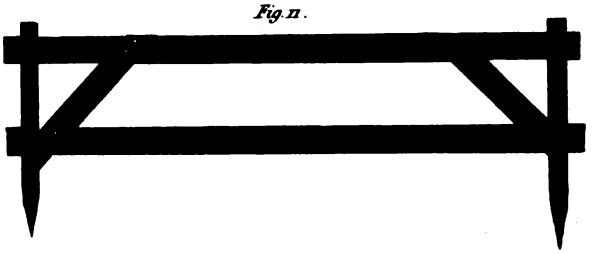

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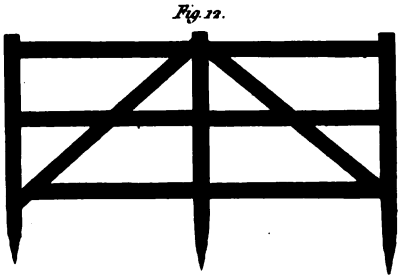

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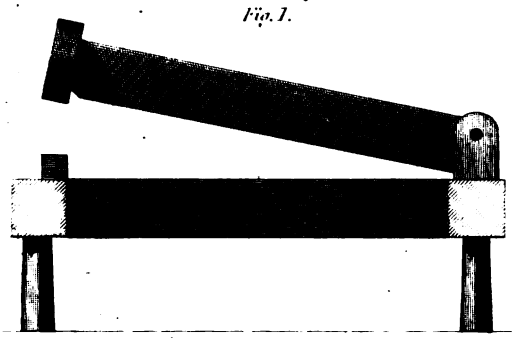
AGRICULTURE.

Fig. 1.



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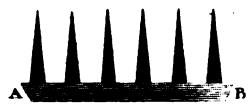

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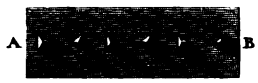

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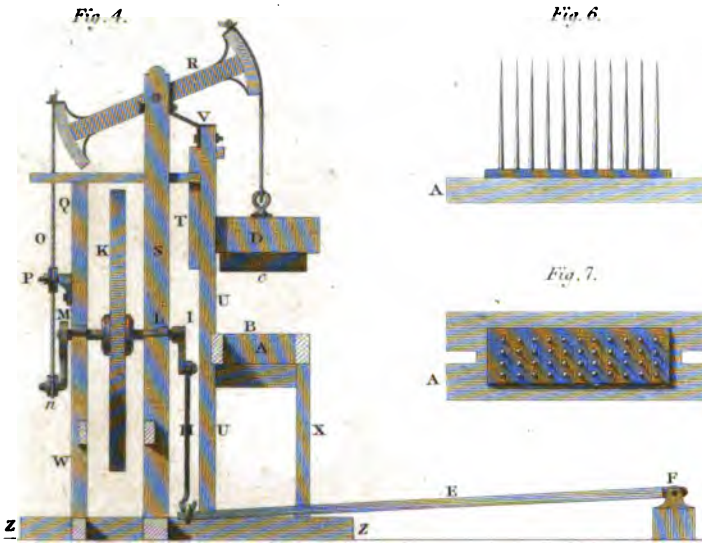
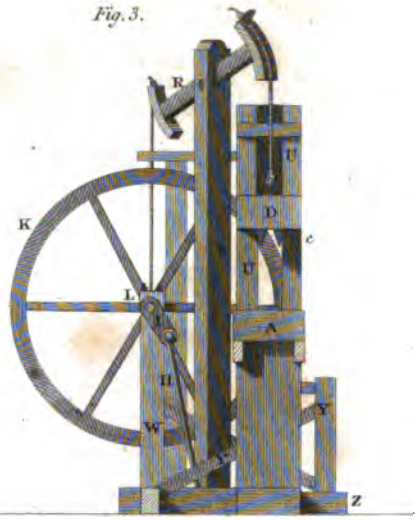


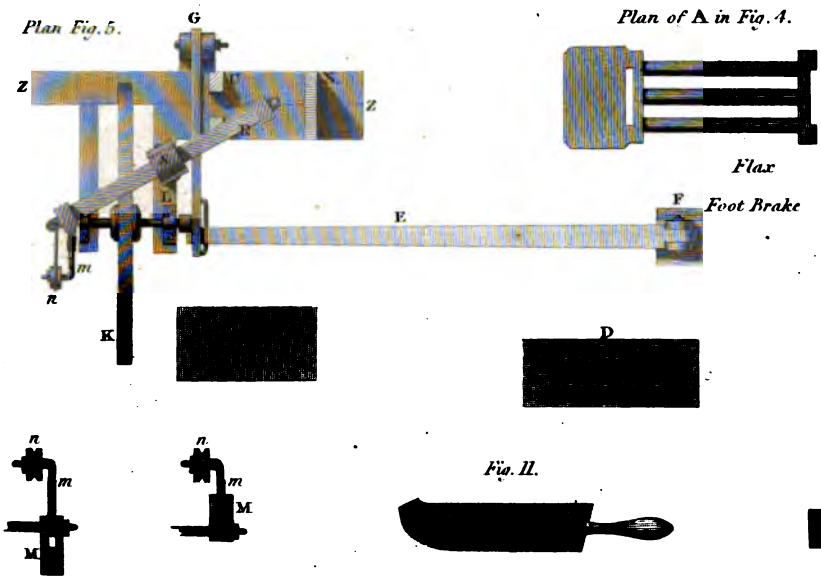
Fig. 6.

Fig. 7.

Fig. 3.



Plan Fig. 5.



Plan of A in Fig. 4.

Flax

Foot Brake

Fig. 11.

Fig. 10.

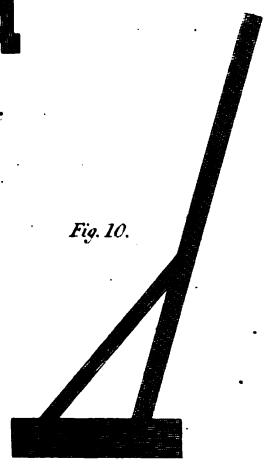


Fig. 9.

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AGRICULTURE.

GRANARY.

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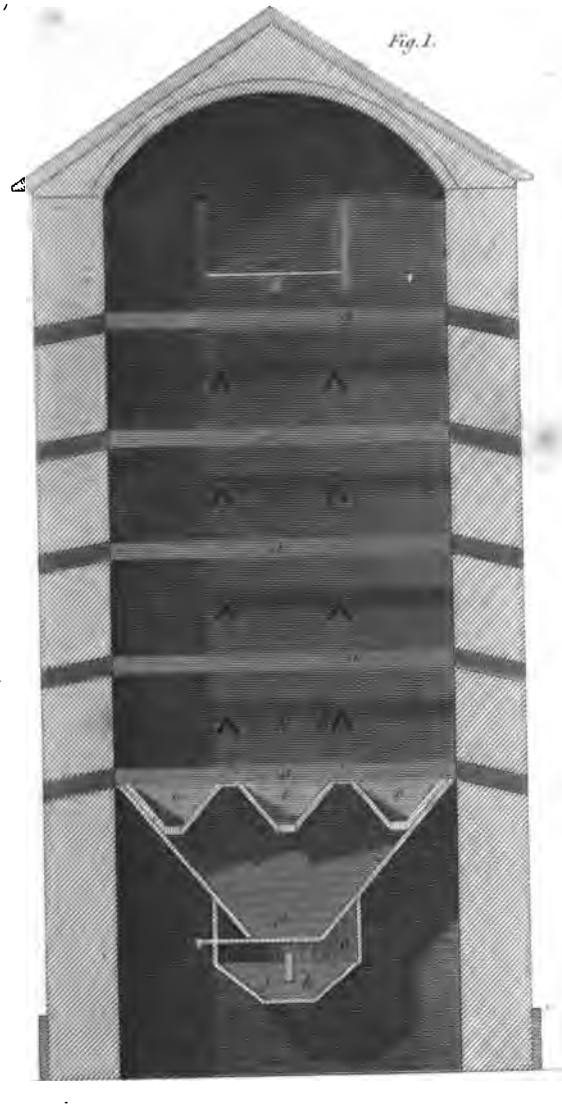

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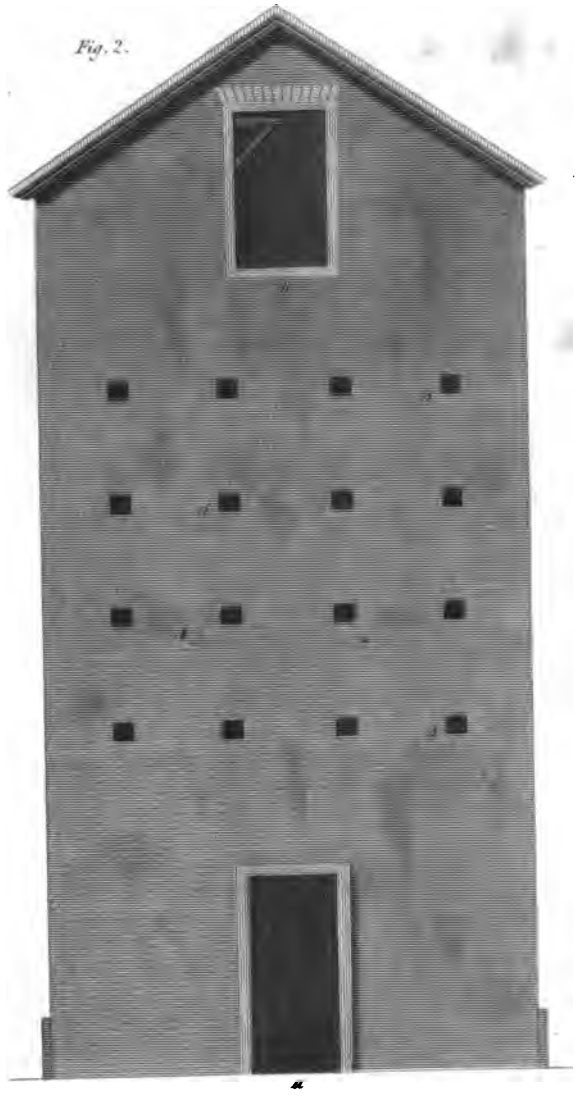


Fig. 3.

Fig. 5.

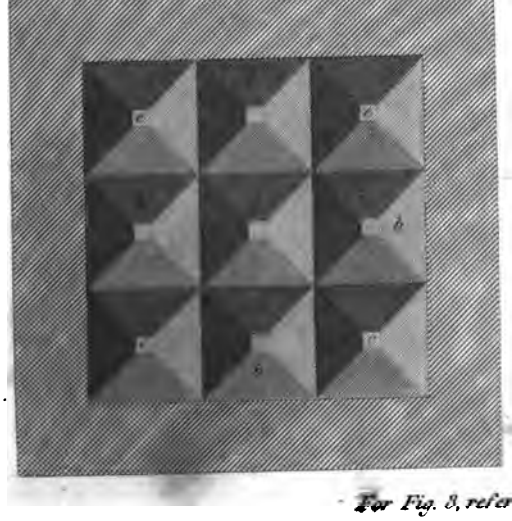
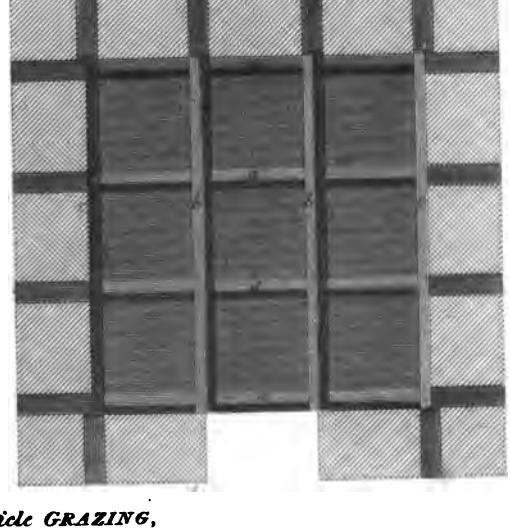


Fig. 6. Plan.



For Fig. 8, referred to in the Article GRAZING, See Plate GRAZING and HARROWS.

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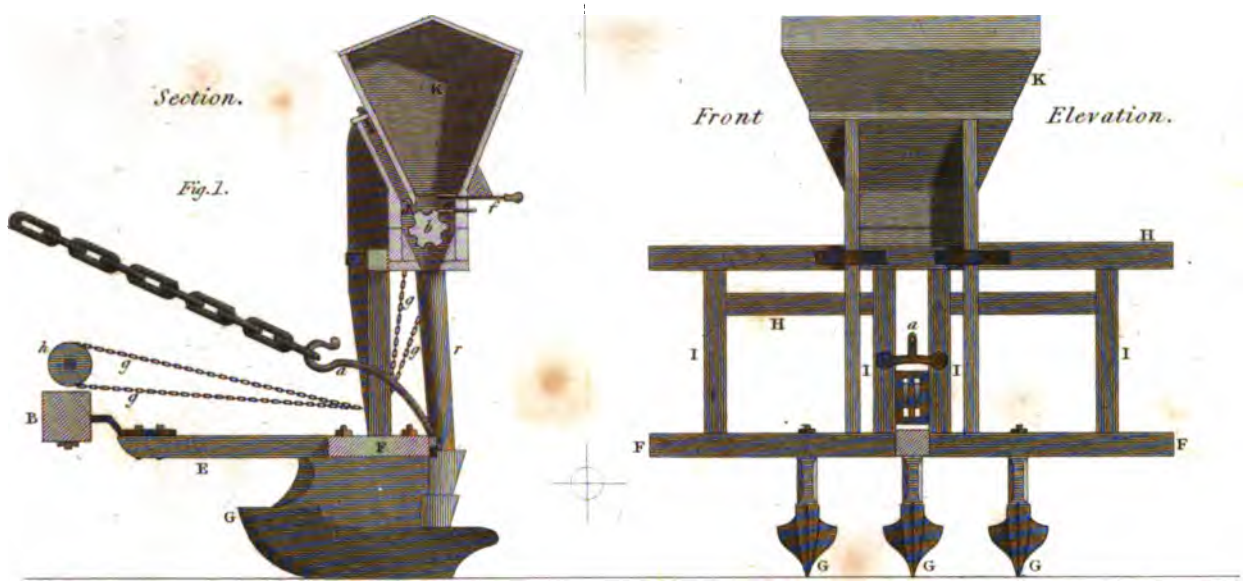
AGRICULTURE.

Salmon's Drill MACHINE.

Fig 2.



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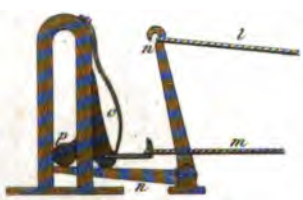

Perspective View of the Machine.

Fig.4.

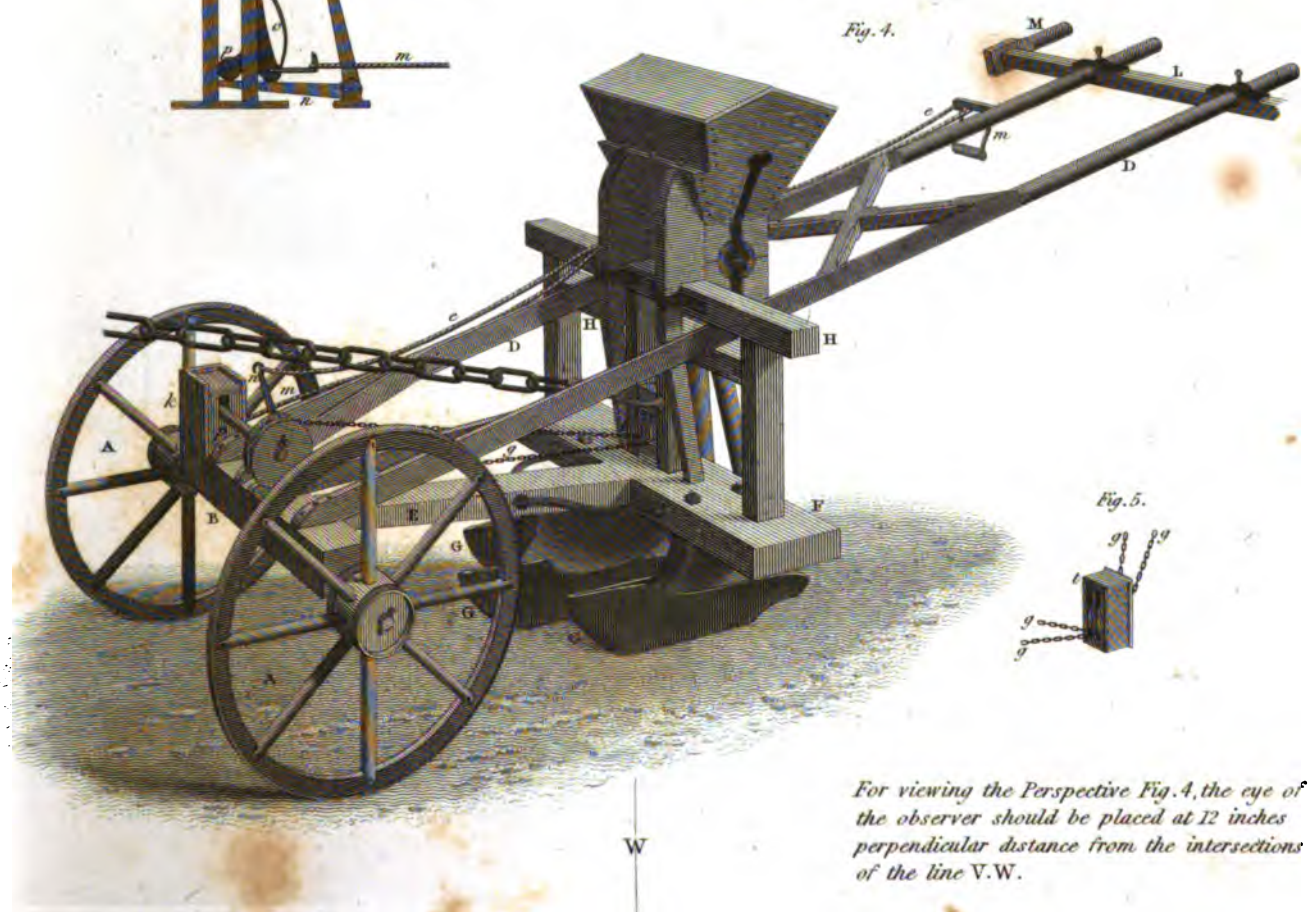

Fig.5.

For viewing the Perspective Fig.4, the eye of the observer should be placed at 12 inches perpendicular distance from the intersections of the line V.W.

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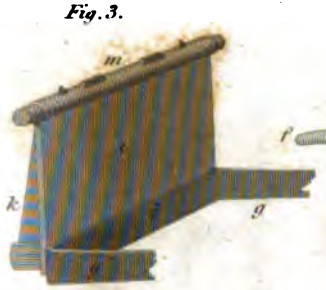
Mr. Charles Machine for Levelling Land.

Fig. 3.



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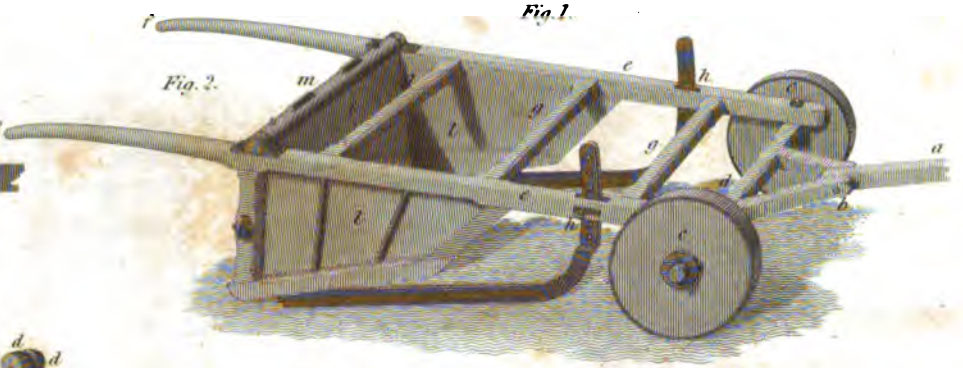
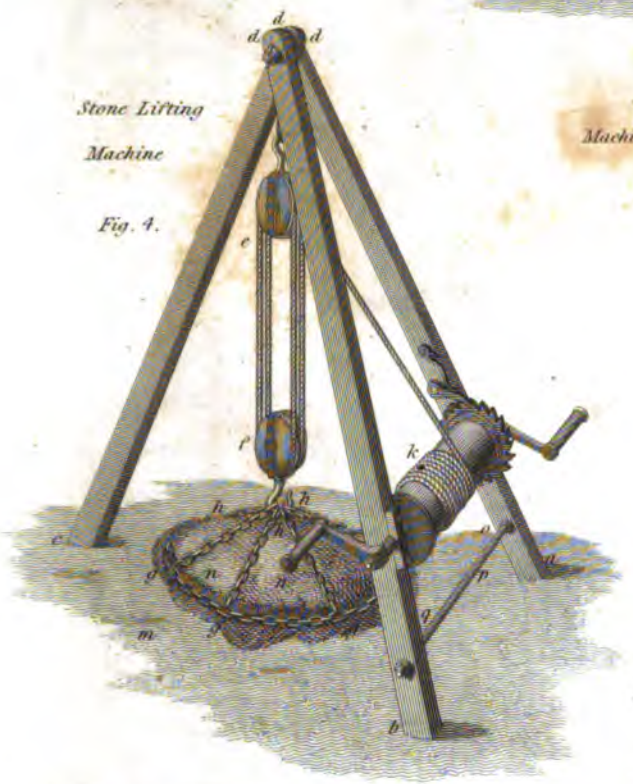


Fig. 2.

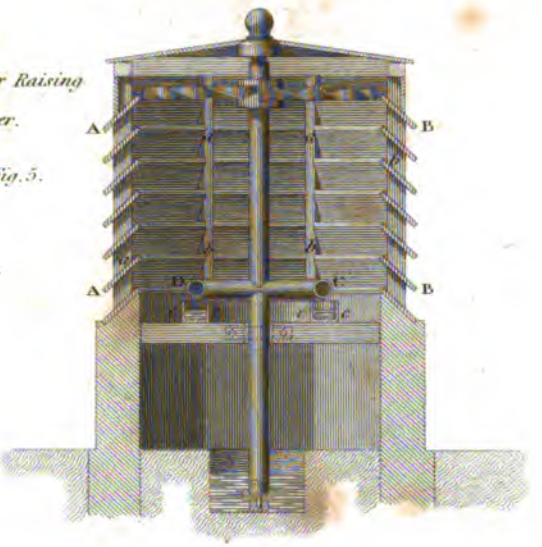
Stone Lifting Machine

Fig. 4.



Machine for Raising Water.

Fig. 5.



Machine for Raising Water, Invented by Mr. Sergeant.

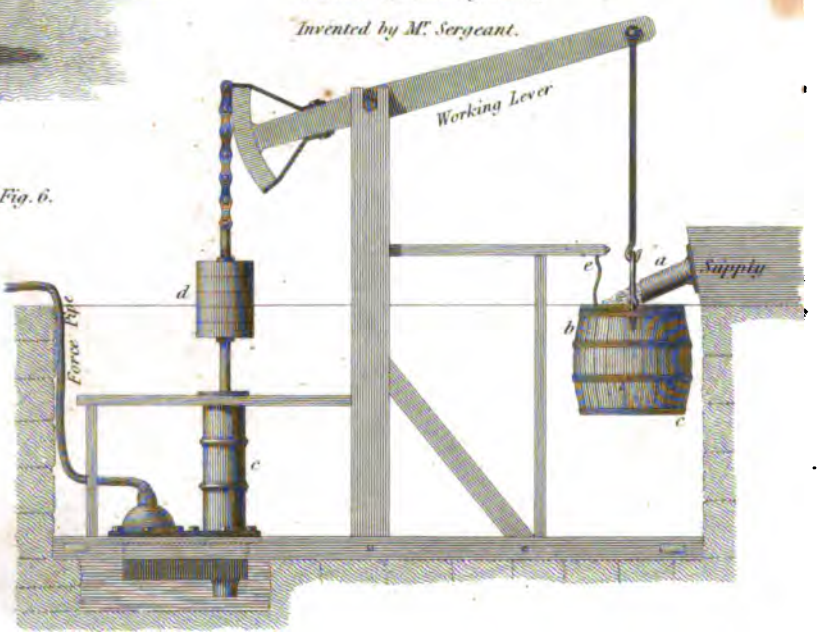
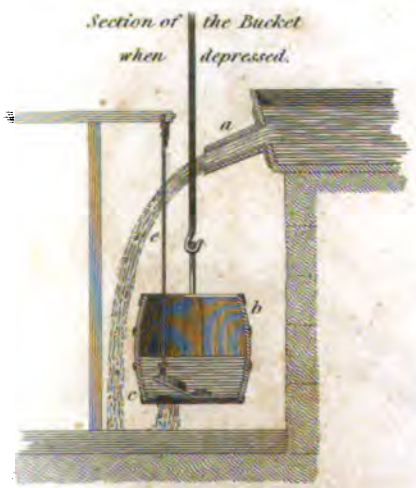


Fig. 6.

Section of the Bucket when depressed.



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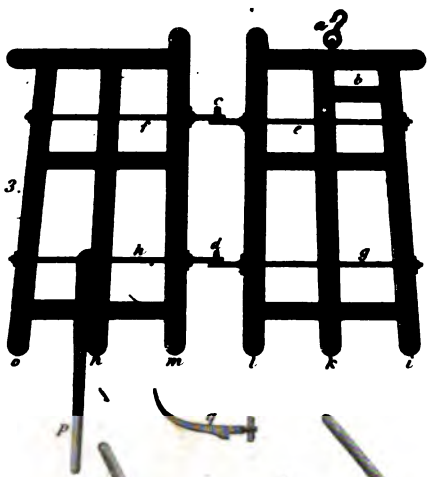
Lowry sculp.

AGRICULTURE.

GRAZING AND HARROWS.

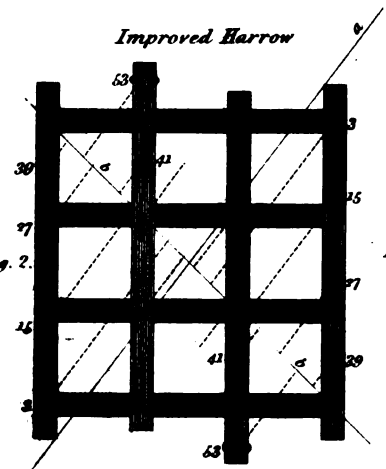
Double Jointed Harrow

Fig. 3.



Improved Harrow

Fig. 2.



Common Harrow

Fig. 1.

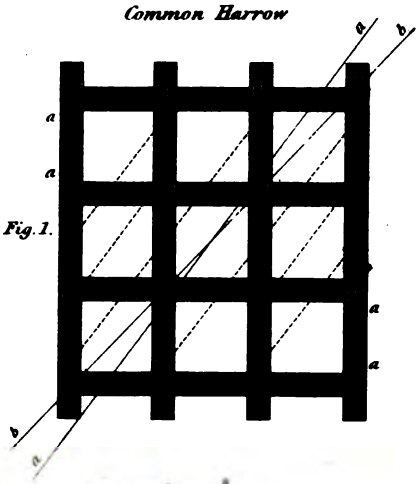
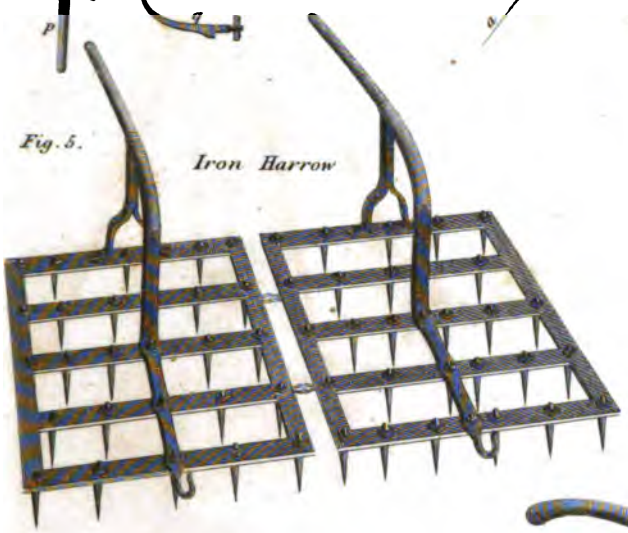


Fig. 5. Iron Harrow



Double Harrow with top bar. Fig. 4.

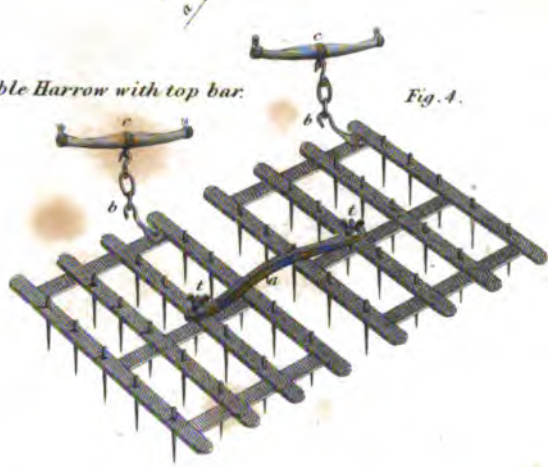


Fig. 8.

Fig. 6. Grass Harrow

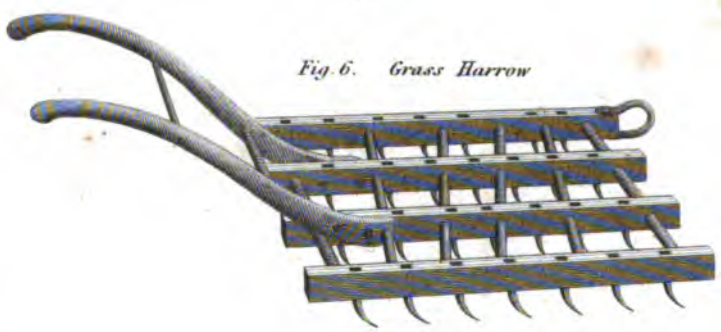


Fig. 7.

Grass Sod cutting Plough

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AGRICULTURE .

PLATE XXVII & XXIX .

Mole Catching

Fig. 1.

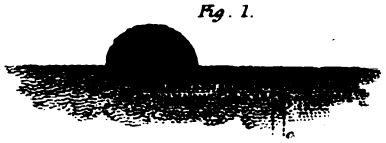
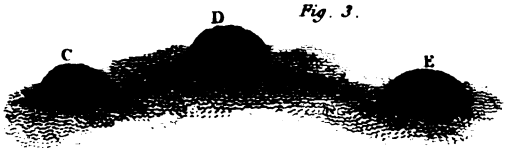


Fig. 2.

Fig. 3.



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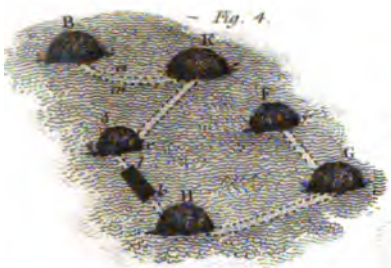


Fig. 7.

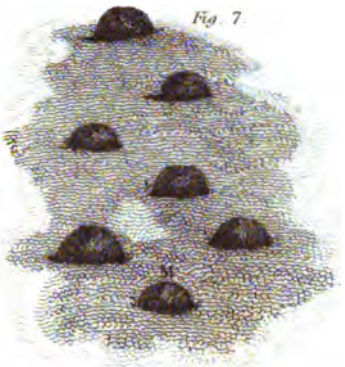


Fig. 5.

Fig. 10.

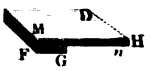


Fig. 12.

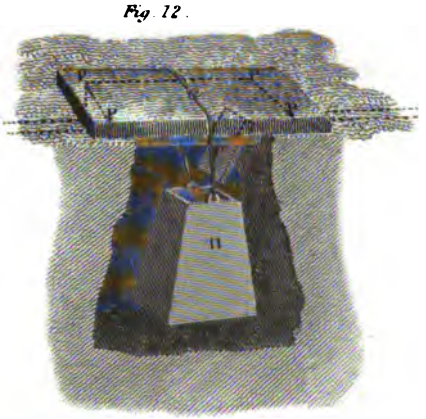


Fig. 8.

Fig. 6.

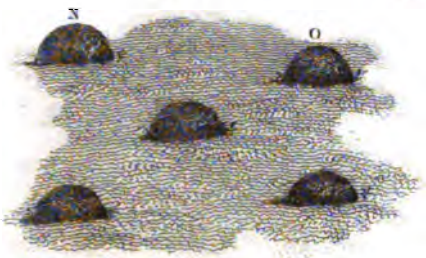
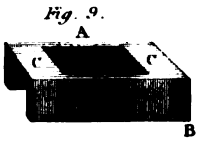


Fig. 11.

Fig. 9.



Mole Ploughs

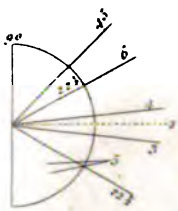


Fig. 2.

Mr Lumberts Plough

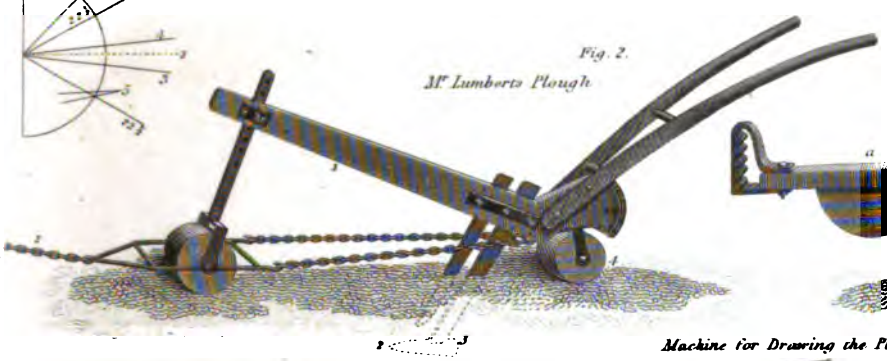
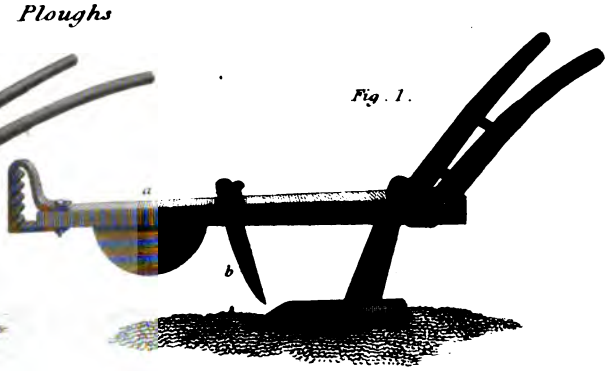
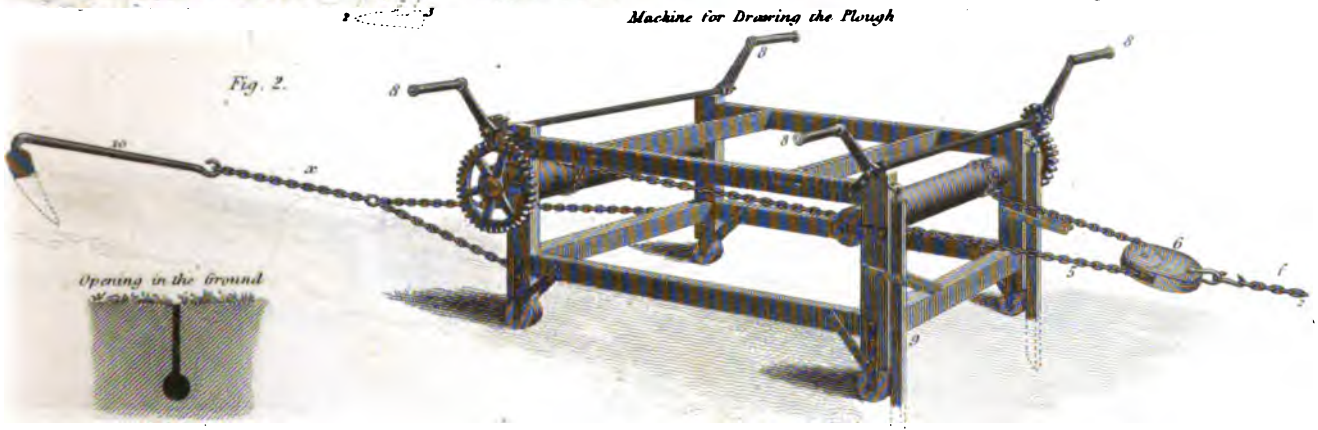


Fig. 1.



Machine for Drawing the Plough

Fig. 2.



J. Farey Junr. delin.

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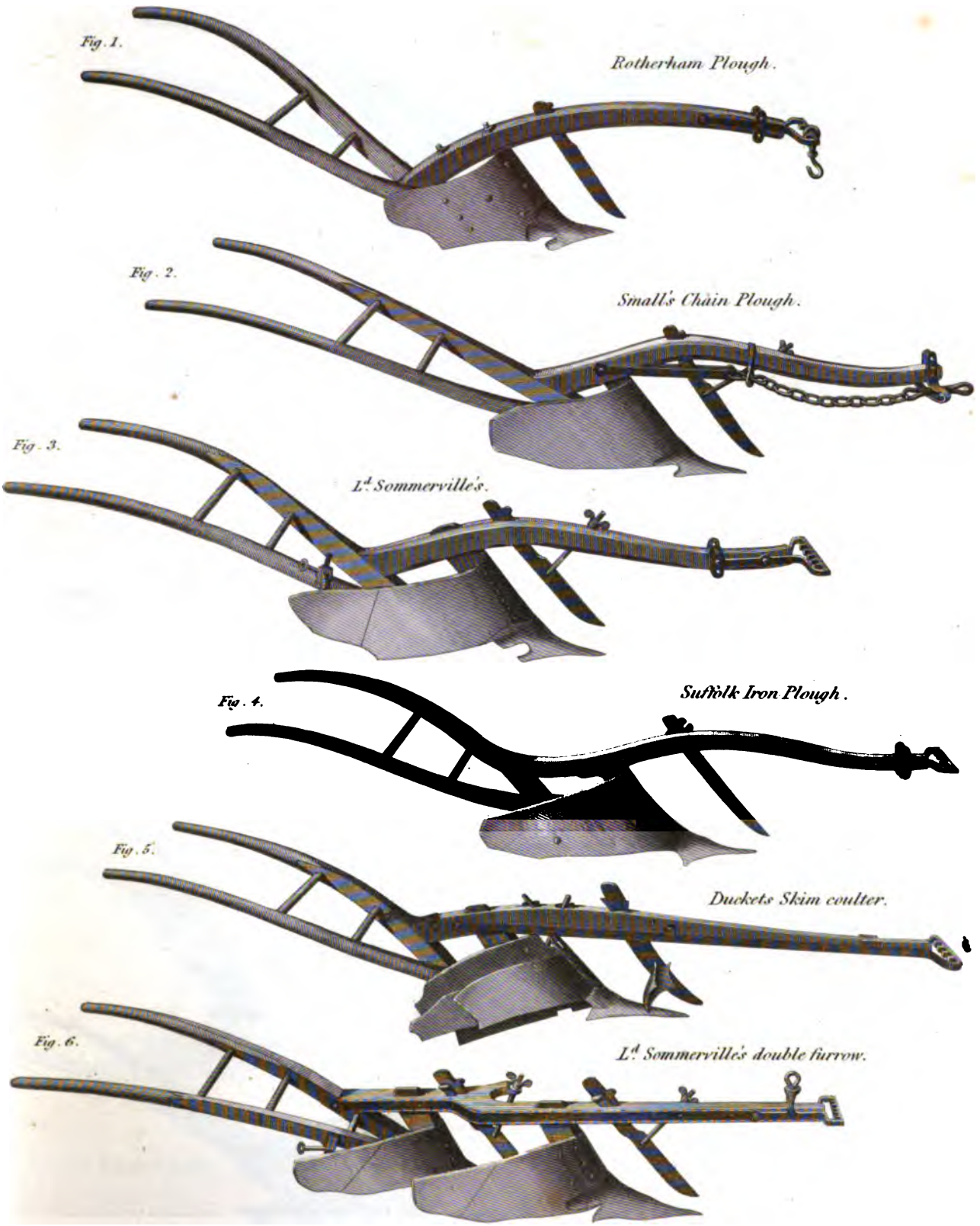
Lowry Sc.

SWING PLOUGHS.



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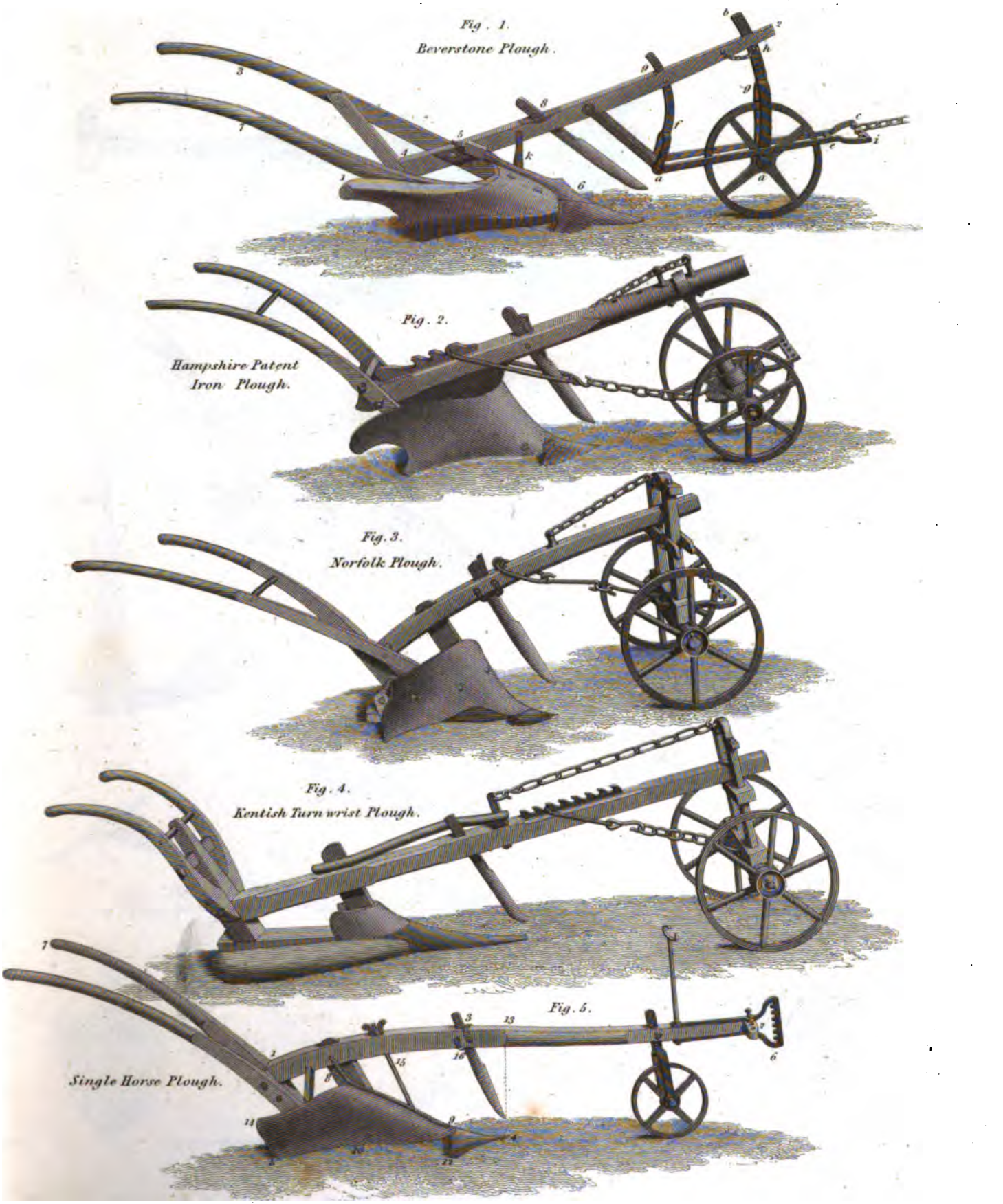
WHEEL PLOUGHS.



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AGRICULTURE.

PARING PLOUGHS & TOOLS.

Cheshire Paring Plough, furrow side view.

Fig. 1.

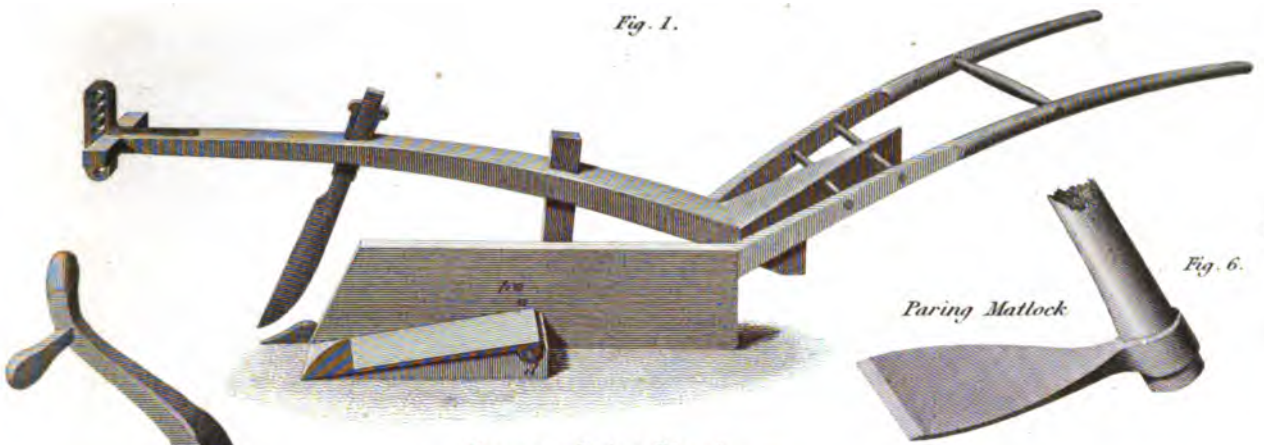
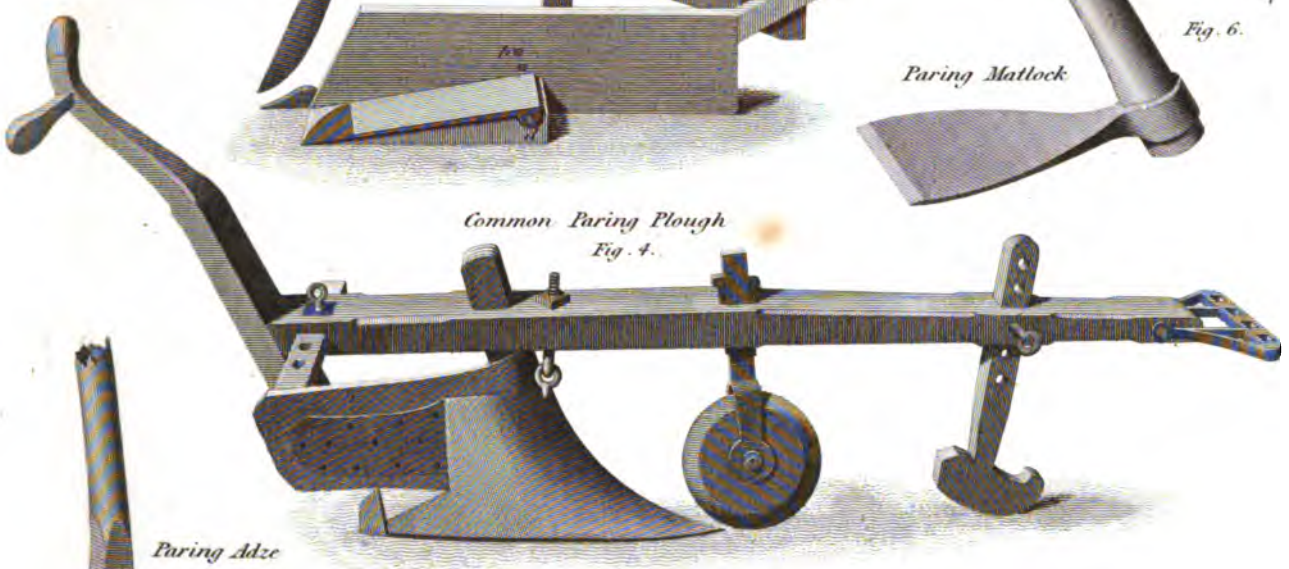


Fig. 6.

Paring Matlock

Common Paring Plough

Fig. 4.



Paring Adze

Fig. 8.

Fig. 7.

Two bill for Paring

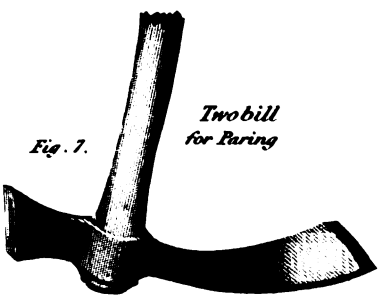
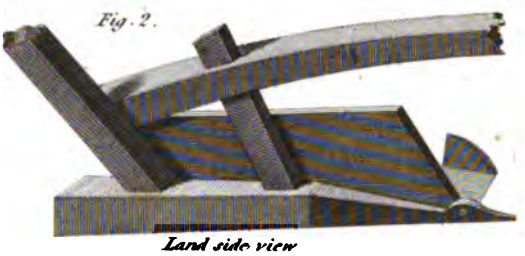


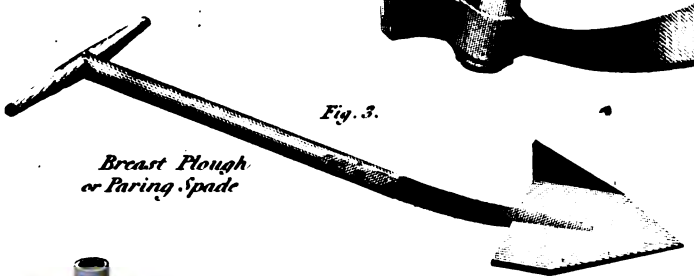
Fig. 2.



Land side view

Fig. 3.

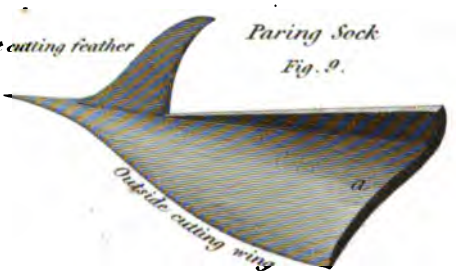
Breast Plough or Paring Spade



Upright cutting feather

Paring Sock

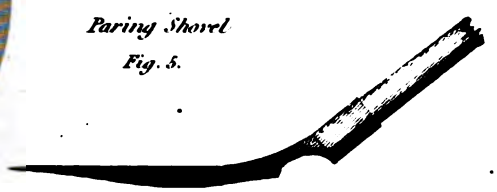
Fig. 9.



Front View

Paring Shovel

Fig. 5.



J. Barry delin. *Published as the Act directs, 1816, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.* *Lowry Sc.*

PISÈ.

Implements for Pise or Rammed Earth Buildings.

Fig. 1.

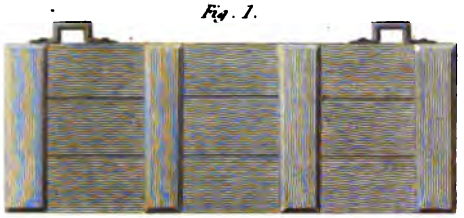


Fig. 4.

Fig. 3.

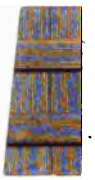


Fig. 2.

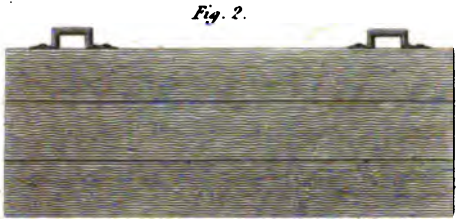


Fig. 6.

Fig. 14.

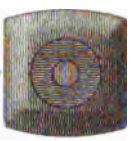


Fig. 12.

Fig. 7.

Fig. 5.

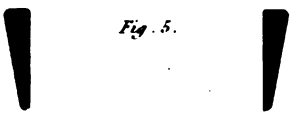


Fig. 8.

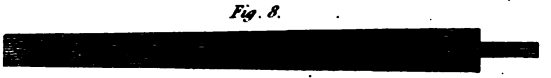


Fig. 13.

Fig. 9.

Fig. 11.

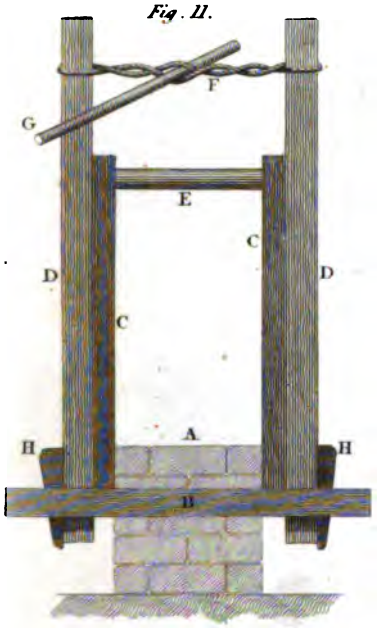
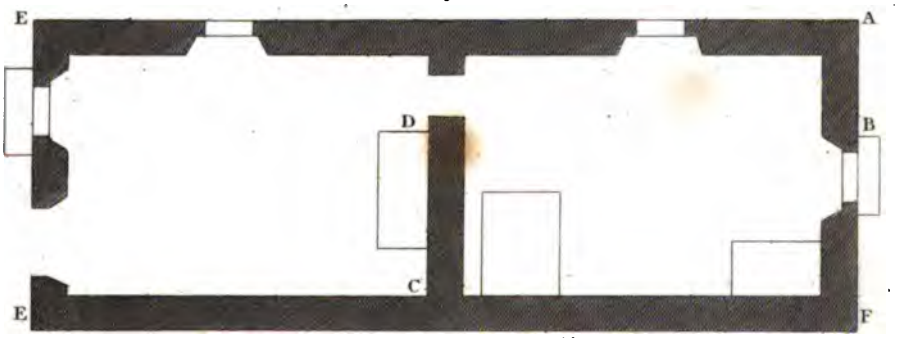


Fig. 10.

Fig. 15.



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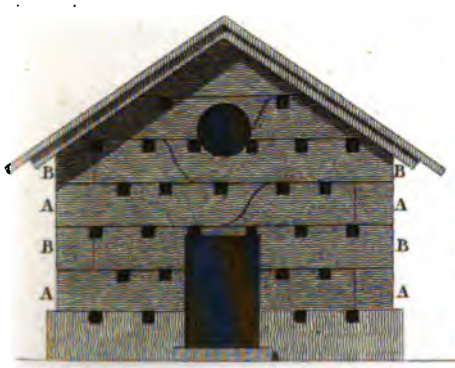

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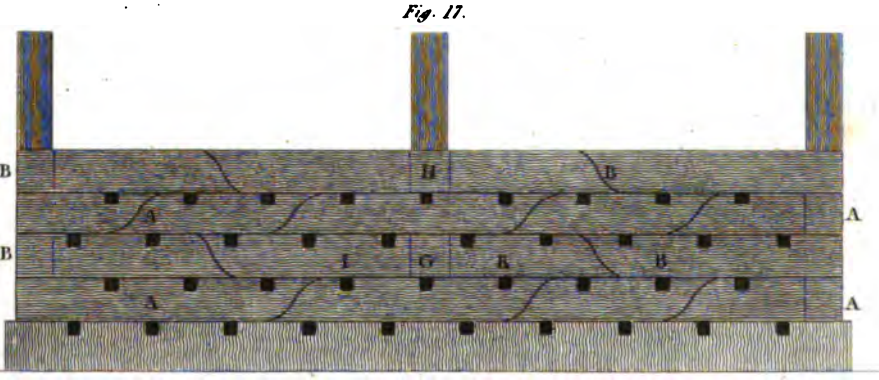

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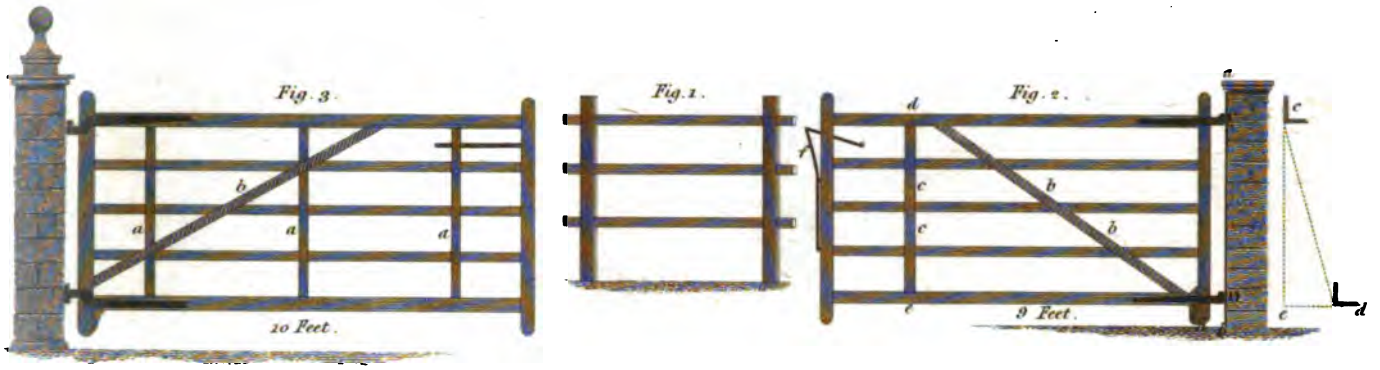
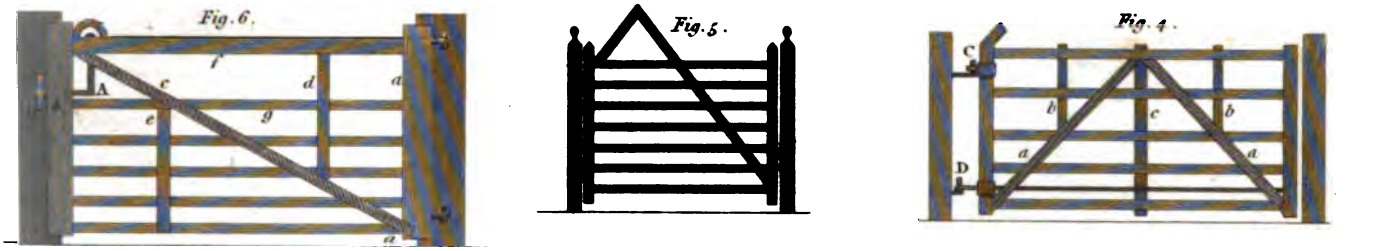
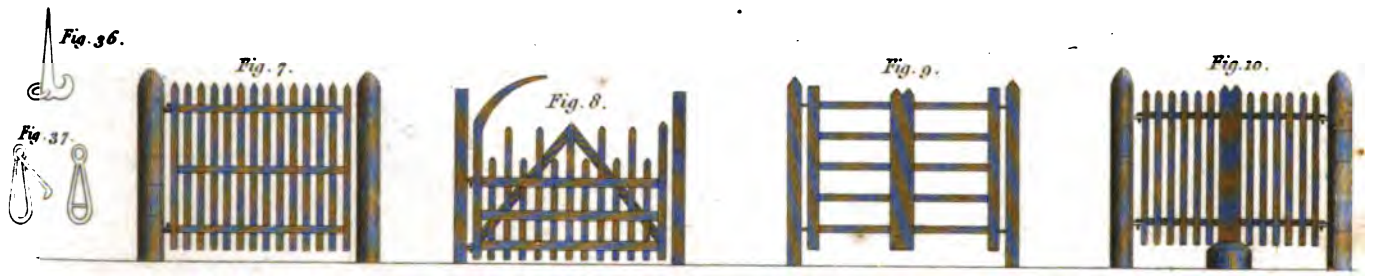
Lowry Sc.

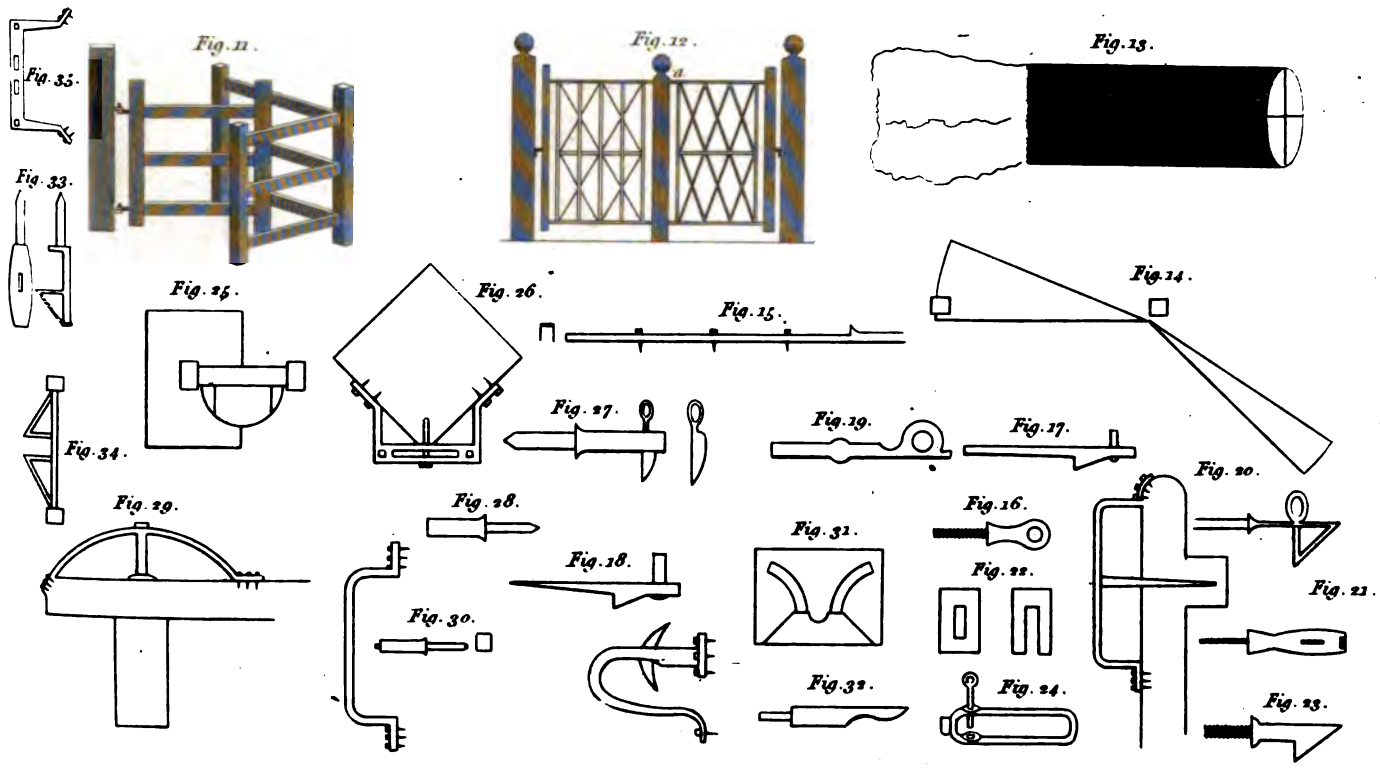
AGRICULTURE.

GATES, HANGINGS AND FASTENINGS.









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Engraved by Wilson Lowry.

AGRICULTURE.

et Scented Vernal G. *...thum odoratum*

c 3. Common Ray G. *Lolium perenne*

...dow Foxtail G. *...urus pratensis*

3. Smooth Stalked Meadow G. *Poa pratensis*

a 1. Rough Stalked M.G. *Poa trivialis*

a 2. Meadow Fescue G. *Festuca pratensis*

a 3. Crested Dogstail G. *Cynosurus cristatus*

d 1. Red or Broad Clover *Tripolium pratense*

d 2. Saintfoin *Hedysarum onobrichis*

d 3. Lucern *Medicago sativa*

...eps Fescue G. *...uca ovina*

b 2. Hard Fescue G. *Festuca duriuscula*

b 3. Flat Meadow G. *Poa compressa*

c 1. Marsh Meadow G. *Poa palustris*

c 2. Knot Grass *Phleum nodusum*

c 1. Trefoil *Medicago Lupulina*

c 2. Rough Cocks foot G. *Dactylis glomarata*

c 3. White or Dutch C. *Trifolium repens*

Fig. 3.

Kiln for General Use.

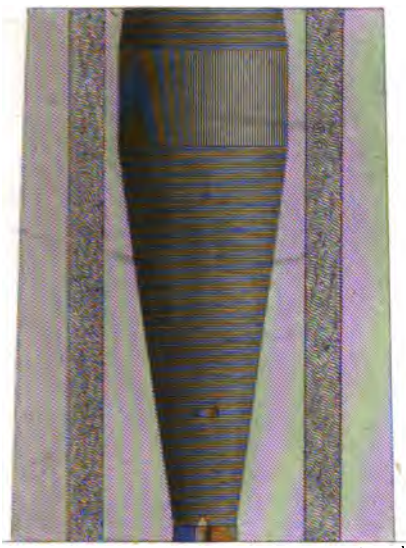


Fig. 2.

Mr. Rawson's Kiln.

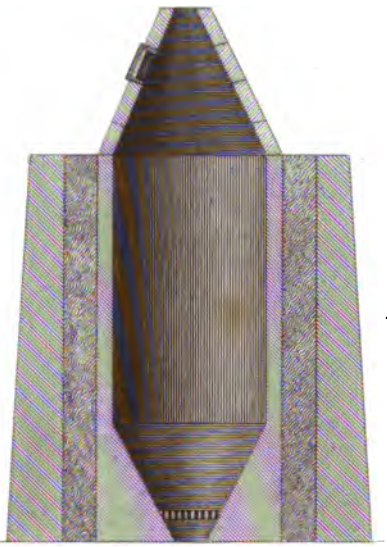
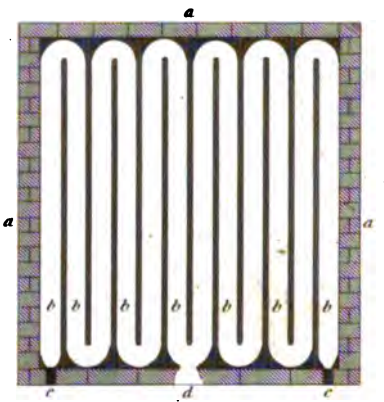


Fig. 8..

Mr. Coppinger's Malt Kiln.



Mr. Pepper's Malt Kiln.

Fig. 6. Plan of the Floor of the Kiln.

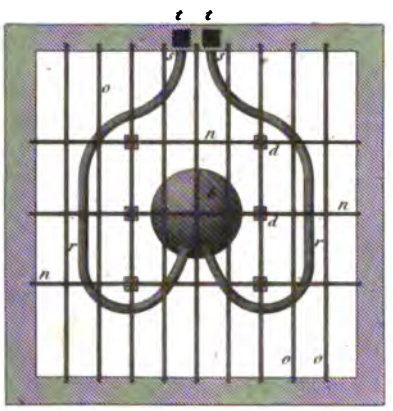
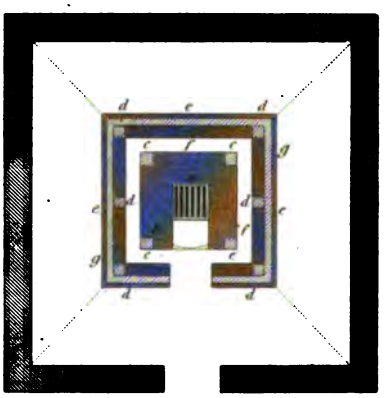
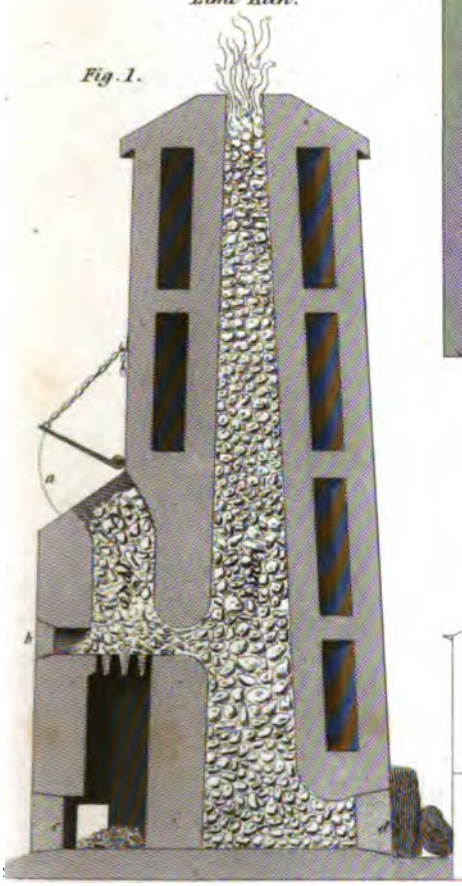


Fig. 4. Ground Plan.



Count Rumford's Lime Kiln.

Fig. 1.



Section of the Chimney.

Fig. 7.

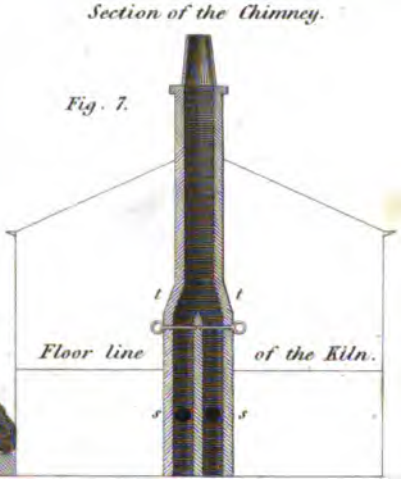
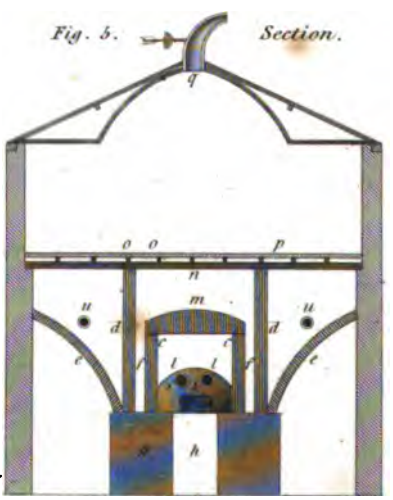


Fig. 5. Section.



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AGRICULTURE

PLATE XXXVII.

Fan Machine.

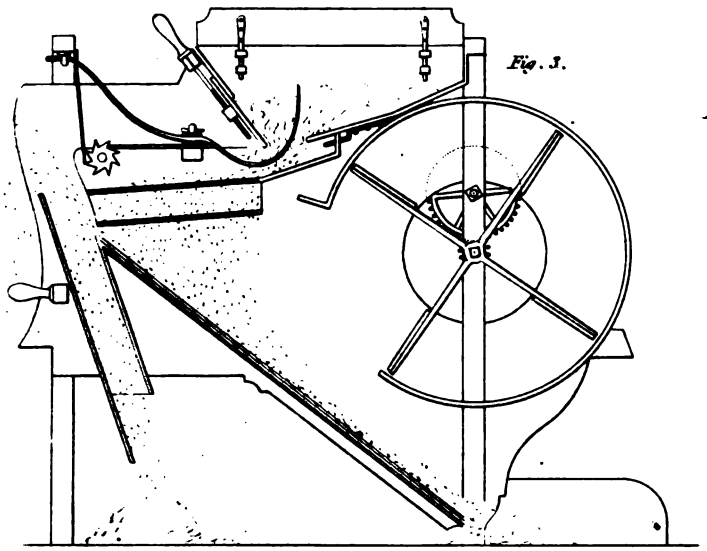
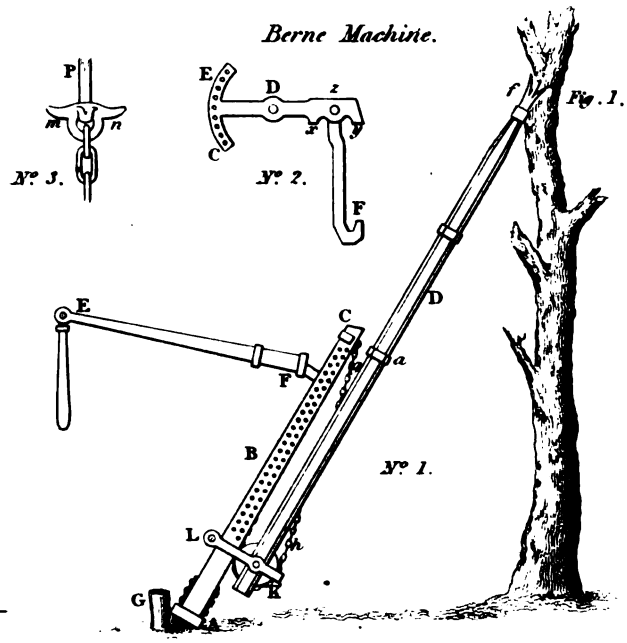


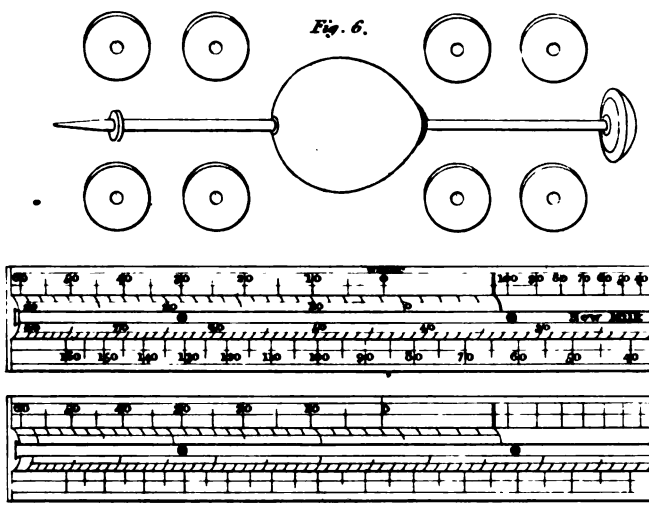
Fig. 3.

Berne Machine.



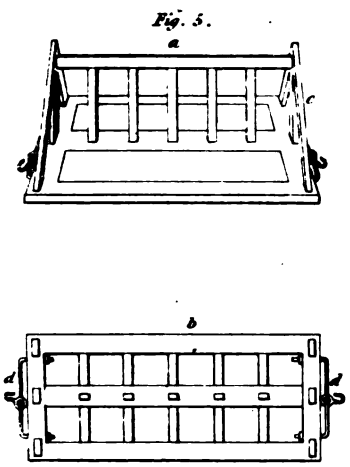
Lactometer.

Fig. 6.

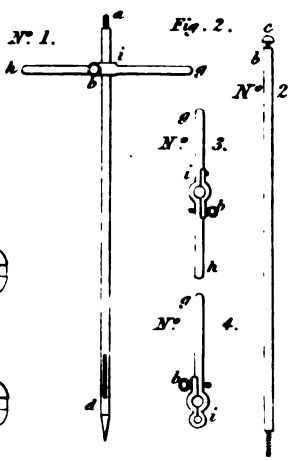


Yorkshire Hay Sweep.

Fig. 5.



Borers.



Lime Stone Pounding Machine.

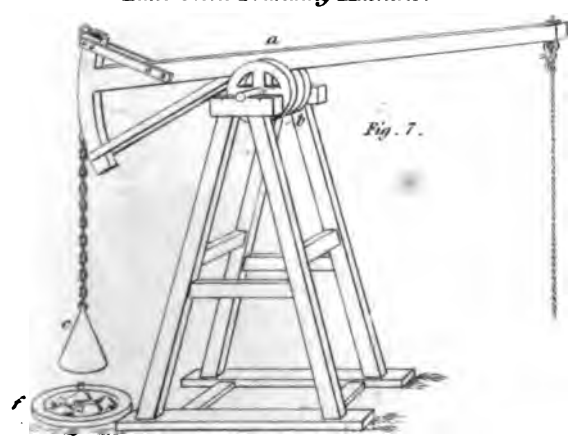
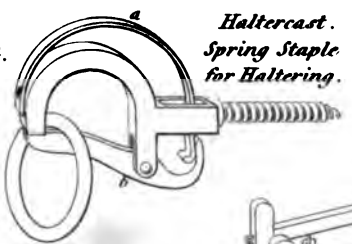
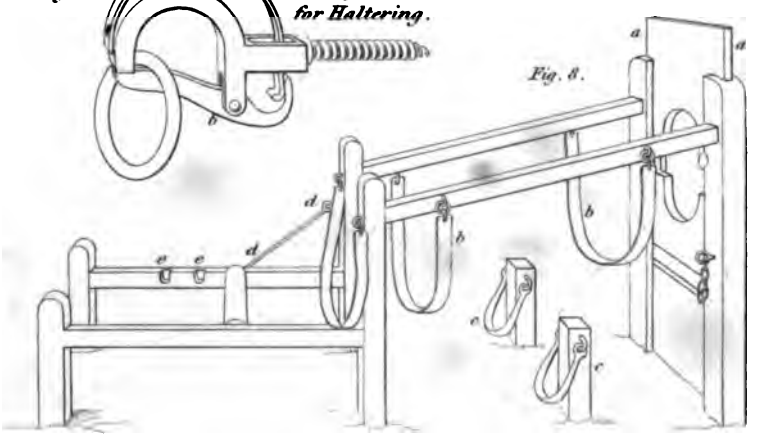


Fig. 4.

Haltercast. Spring Staple for Haltering.



Ox Shoeing Machine.



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QUARRIES, PITS, MINES &c. Draining them.

Fig. 1. Section of the DRAINS.

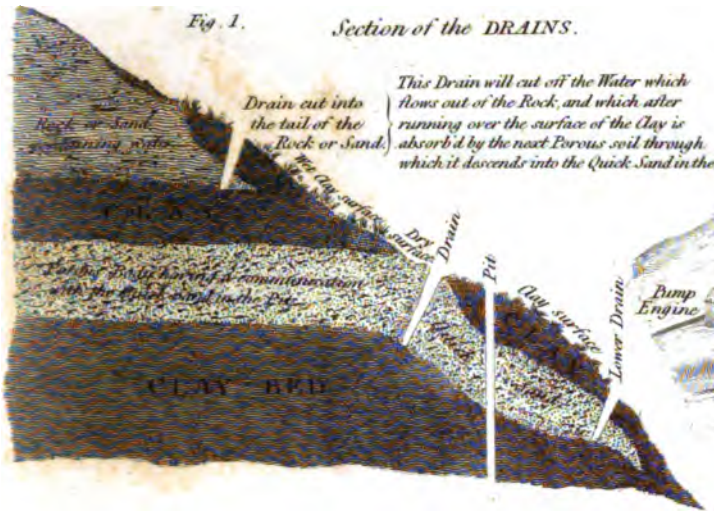
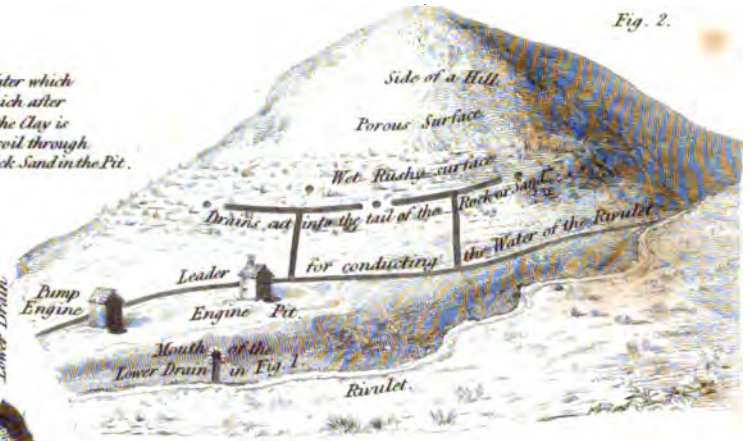


Fig. 2.



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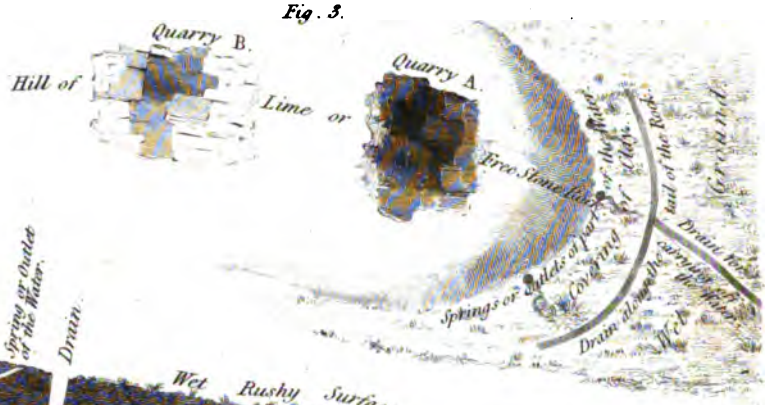

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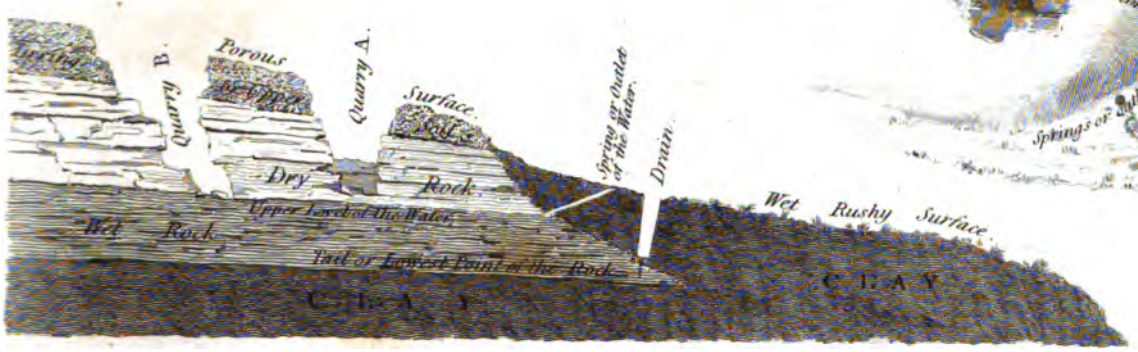

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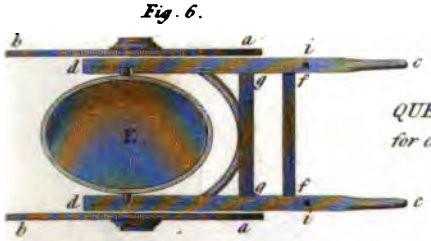

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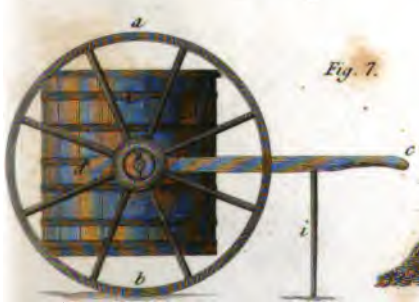
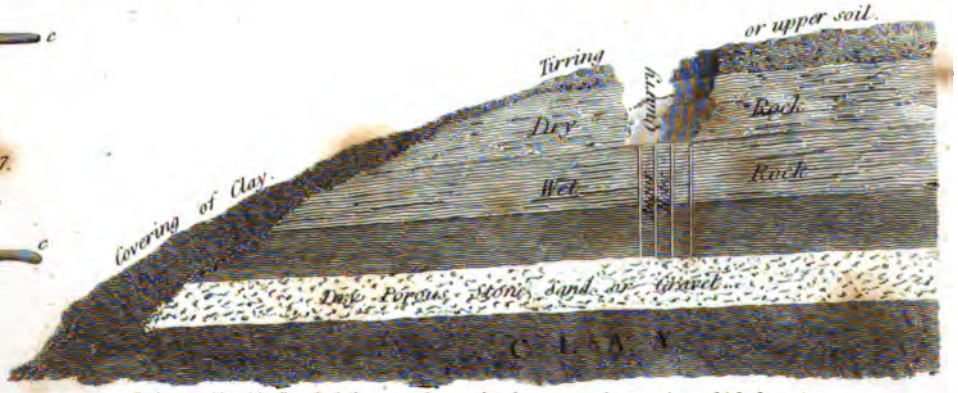


Fig. 5.



Perhaps under this Clay Bed there may be another dry porous Stratum into which the water may be let down and reduced to a still lower level, and this may be ascertained by boring an auger hole through the Clay.

J. Farey, delin. Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. W. Lowry, Sc.

AGRICULTURE.

POTATOE HARROW and SET SCOOPS.

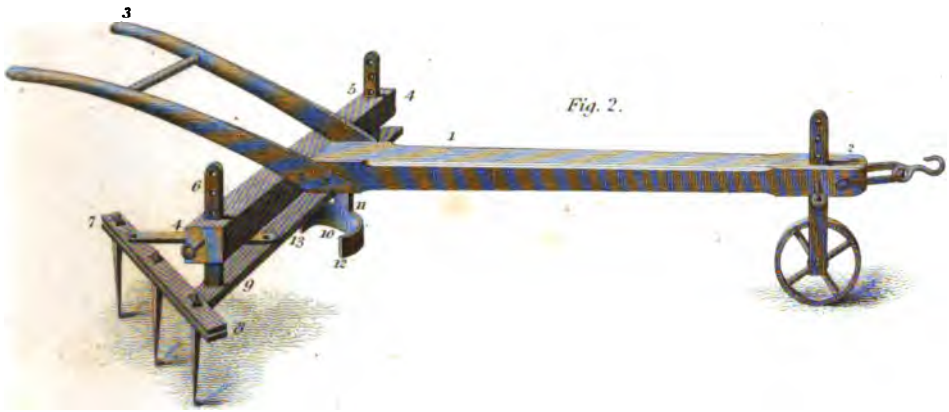
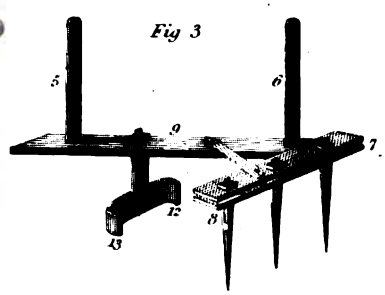


Fig. 2.

Side View.

Fig 3



Construction of Ponds.

Fig. 6.

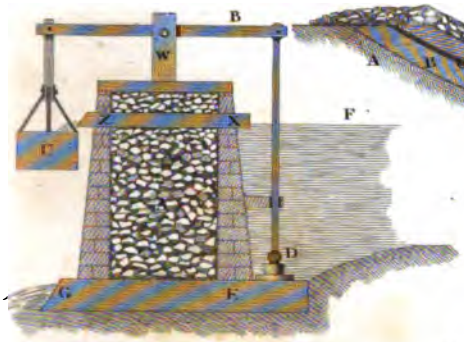
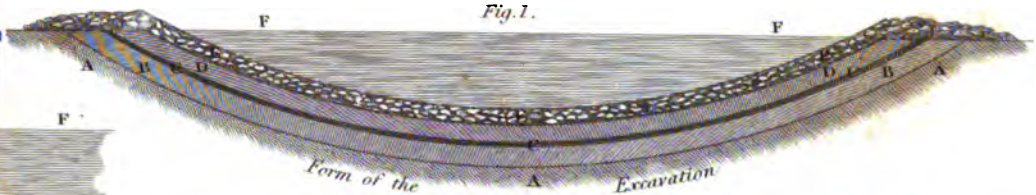


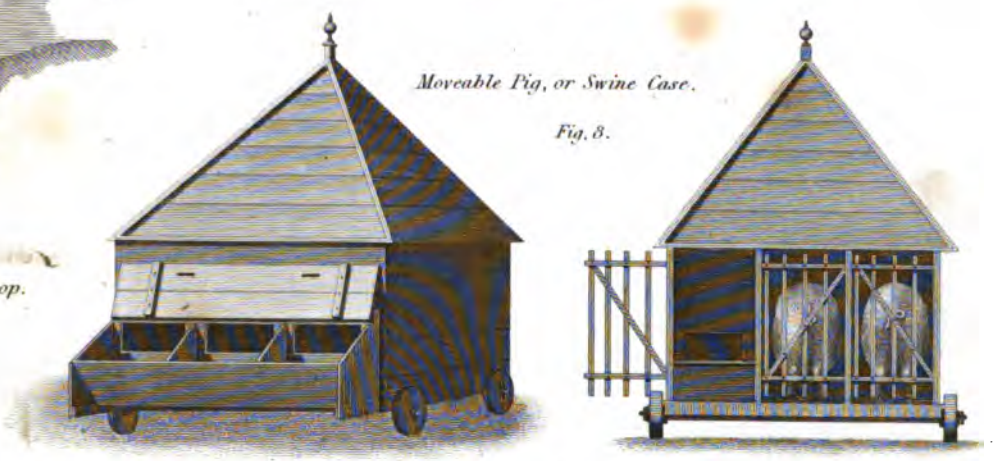
Fig. 1.



Form of the Excavation

Moveable Pig, or Swine Case.

Fig. 8.



Dublin Potatoe Set Scoop.

Fig. 4.

Fixed Pig, or Swine Case.

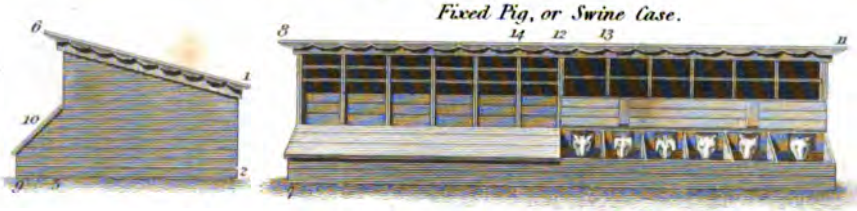
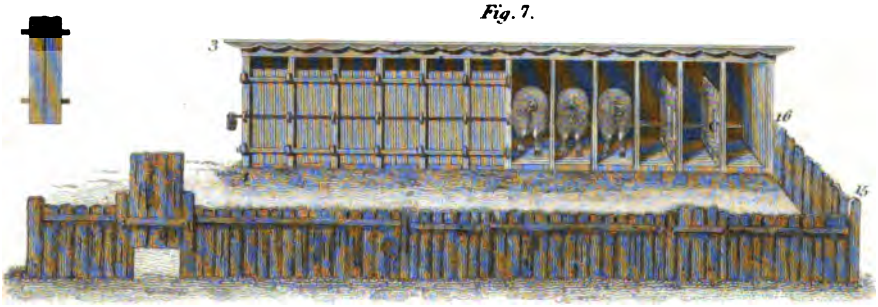


Fig. 7.



Slarks Potatoe Set Scoop.

Fig. 5

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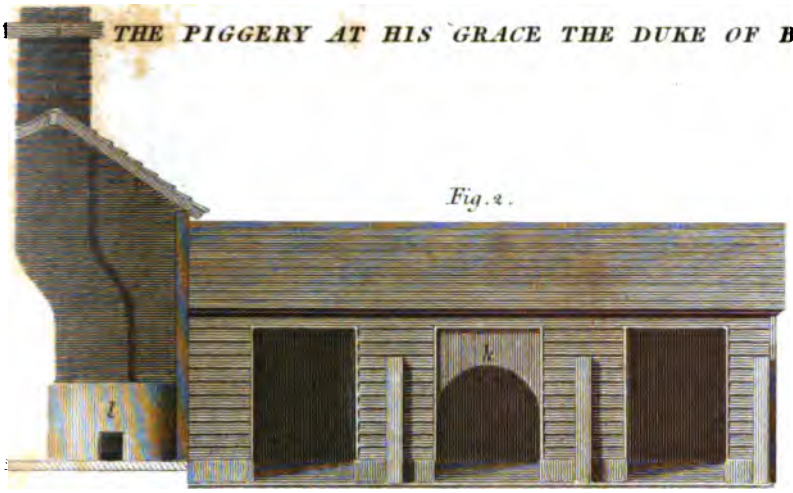
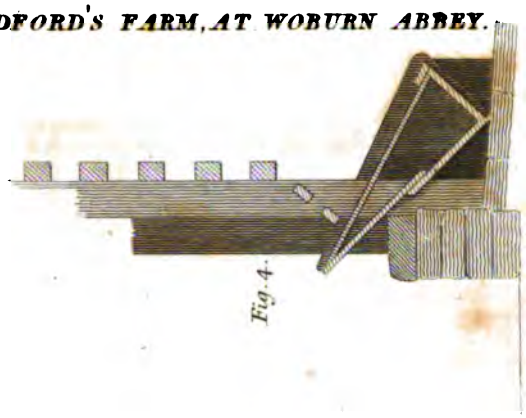
Lowry sculp.

AGRICULTURE.

THE PIGGERY AT HIS GRACE THE DUKE OF BEDFORD'S FARM, AT WOBURN ABBEY.





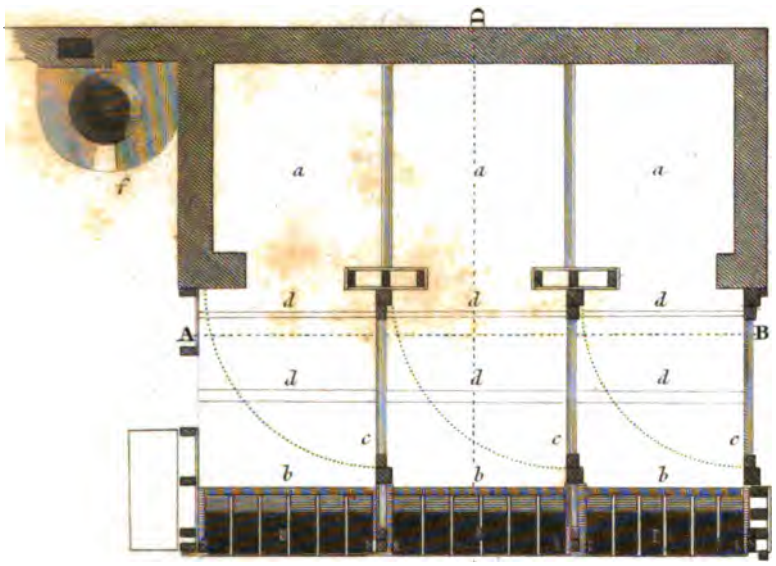
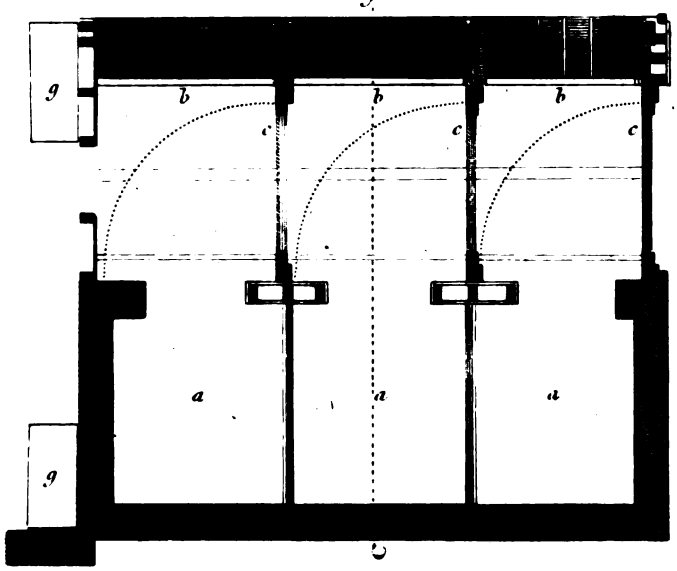
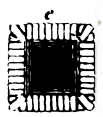
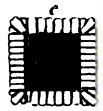
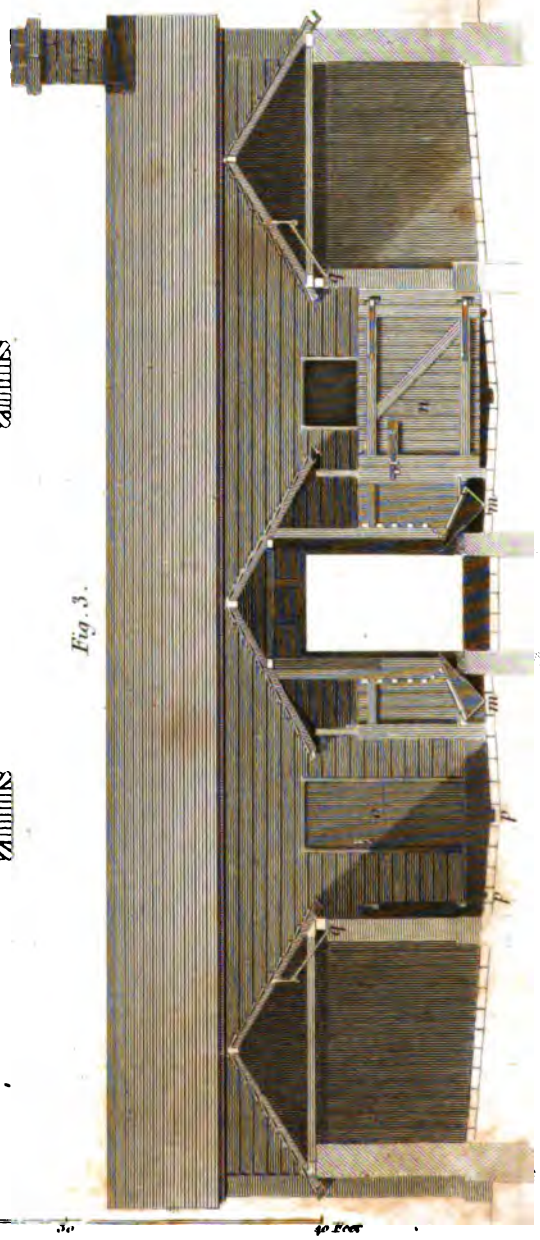


Fig. 1.









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ALGEBRA.

PALPABLE ARITHMETIC AND WRITING.

Fig. 1.

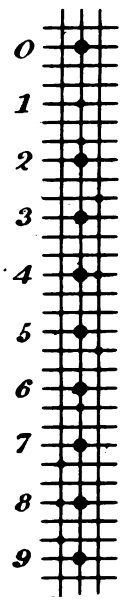
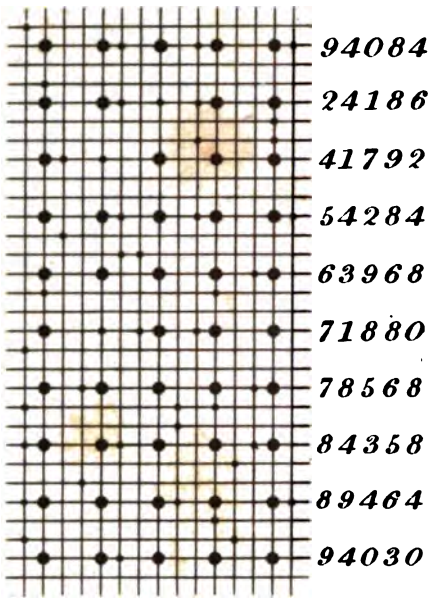


Fig. 2.



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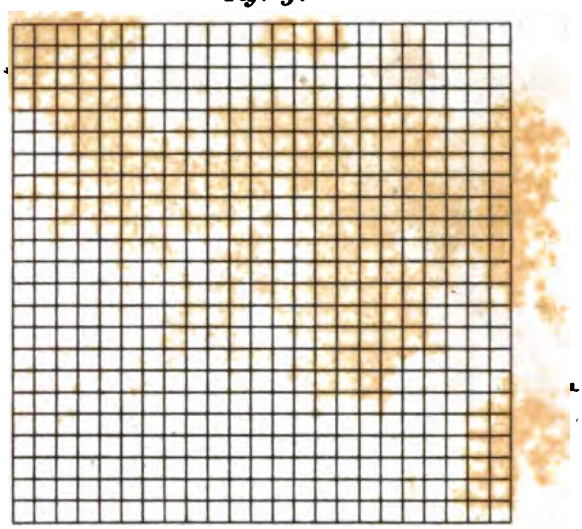

ART OF WRITING IN THE DARK.

Fig. 7.

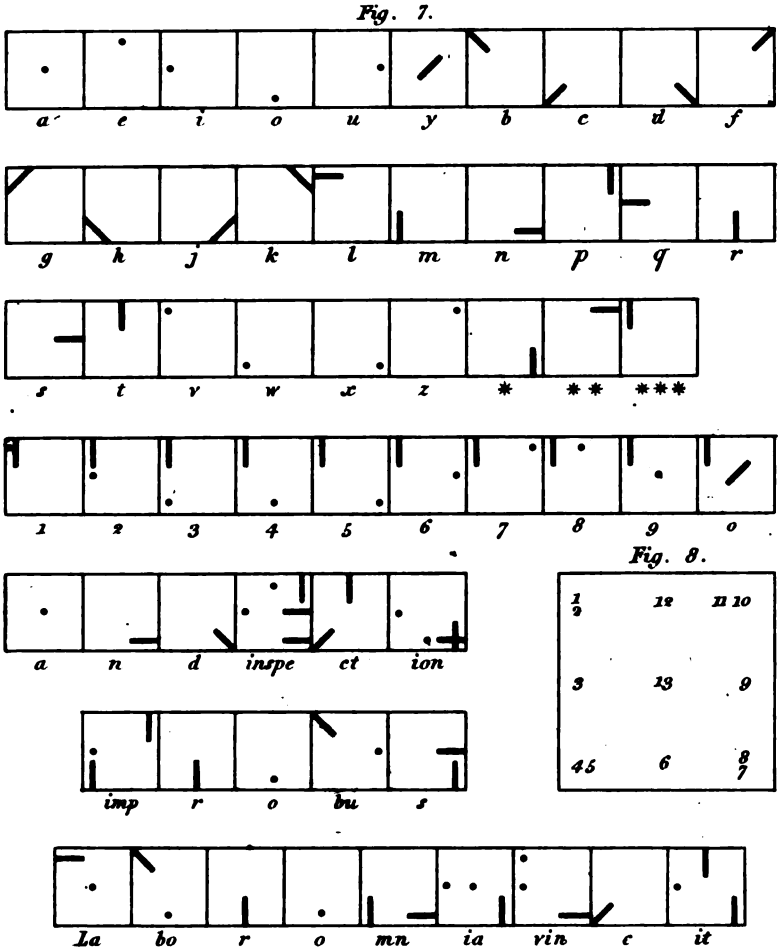

Fig. 8.

Denominations of the Letters.

1	2	3	4	5	6	7	8	9	10	11	12	13
b	l	i	c	m	o	d	n	u	f	p	e	a
g	q	h		r	j		s	k				y
v		w		x		z						

* *The square distinguished by one star underneath contains the mark to denote the end of a word.*

** *The square so distinguished contains the mark denoting a capital letter.*

*** *The square so distinguished contains the mark signifying a numeral character or number.*

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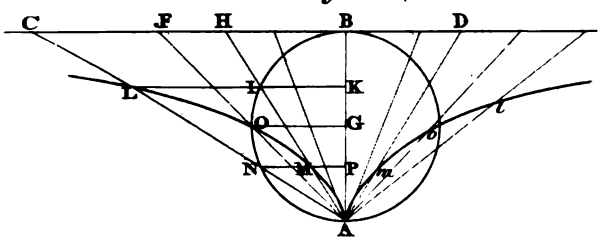
CISSOID.

Fig. 1.



CONCHOID.

Fig. 2.

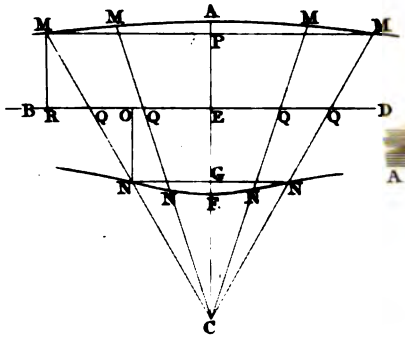


Fig. 3.

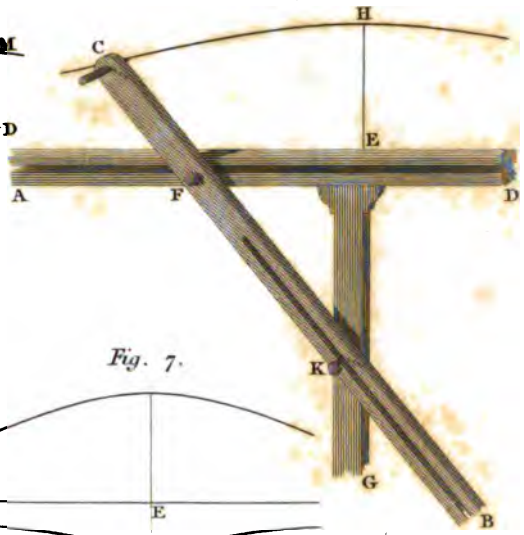


Fig. 4.

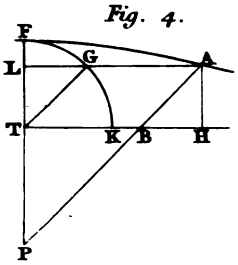


Fig. 5.

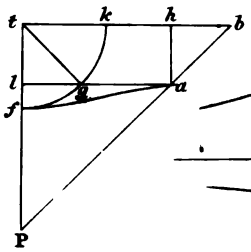


Fig 6.

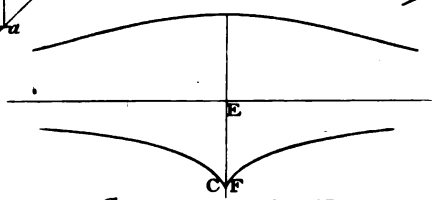
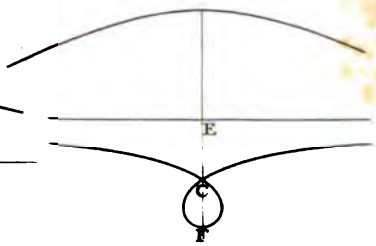


Fig. 7.



CONSTRUCTION.

Fig. 8.

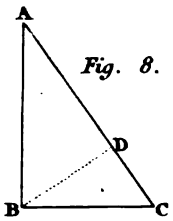


Fig. 9.

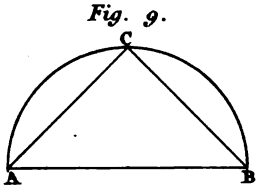


Fig. 10.

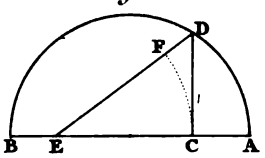


Fig. 11.

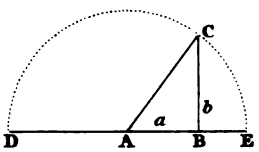


Fig. 12.

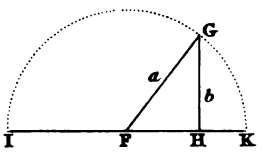


Fig. 13.

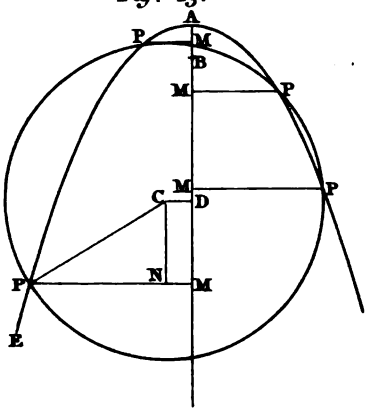


Fig. 14.

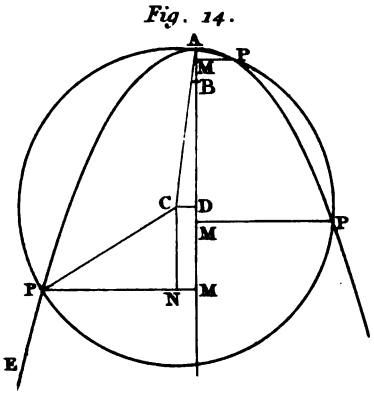


Fig. 15.

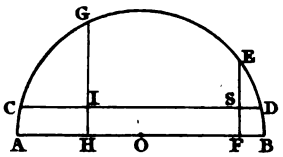


Fig. 16.

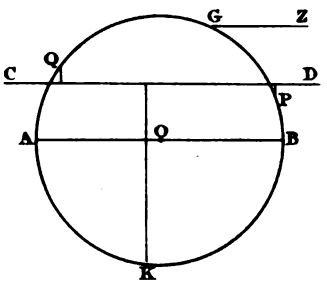


Fig. 17.

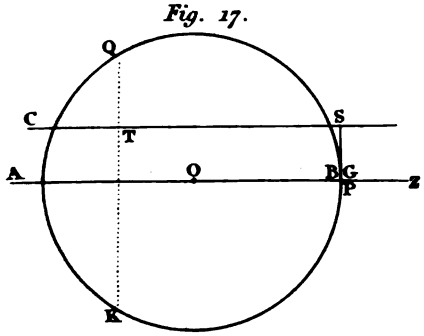
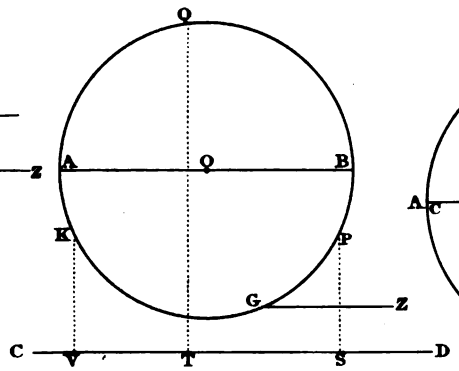


Fig. 18.



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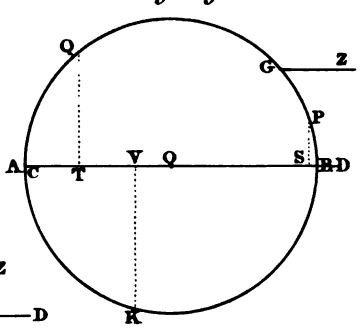
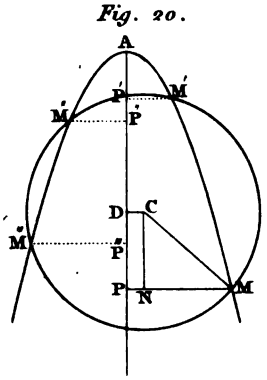


Fig. 20.



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COTESIAN Theorem.

Fig. 21.

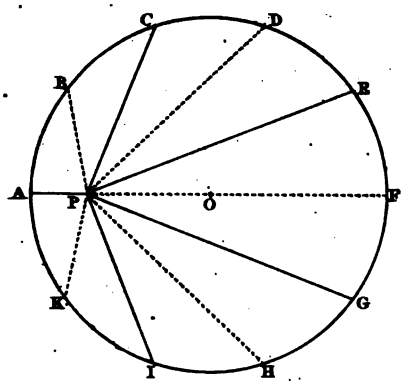
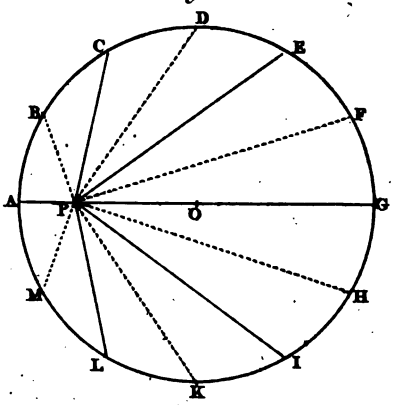
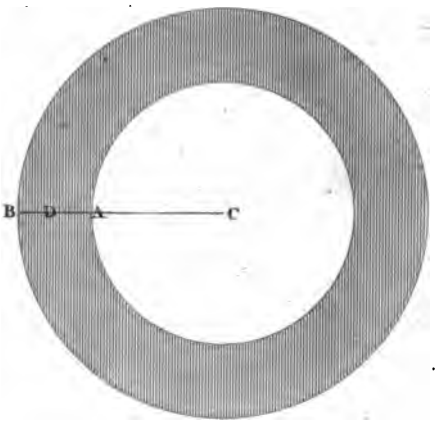


Fig. 22.



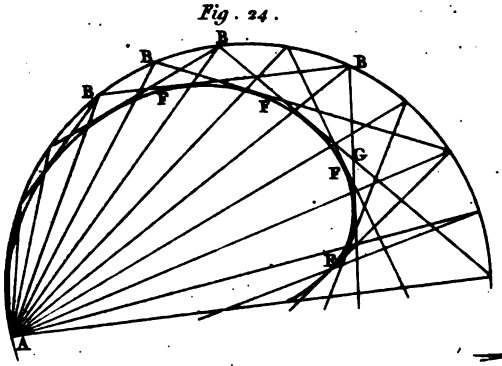
CROWN

Fig. 23.



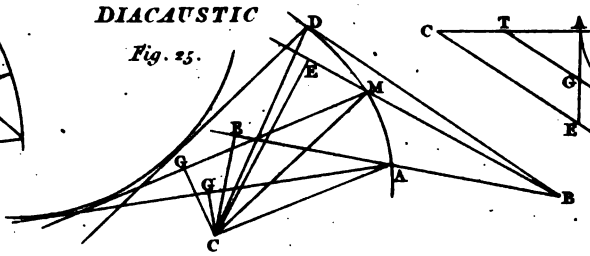
CAUSTIC CURVE

Fig. 24.



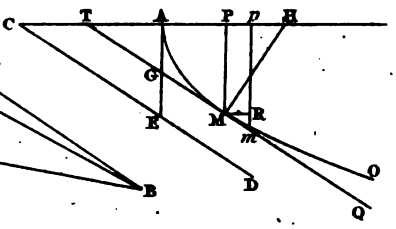
DIACAUSTIC

Fig. 25.



ELEMENT

Fig. 18.



CYLINDER.

See the Article referred to as in Geometry Plate IV.

Fig. 4.

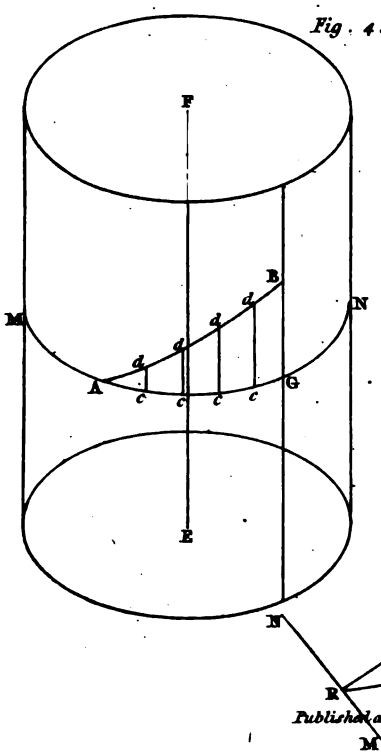
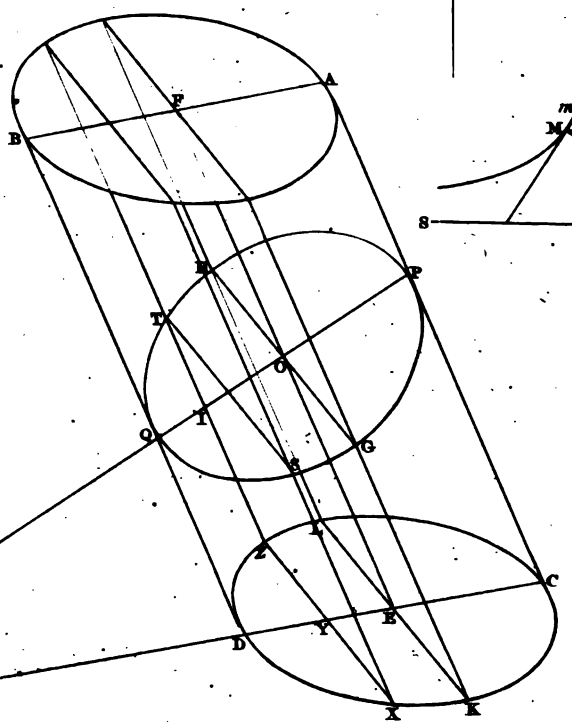
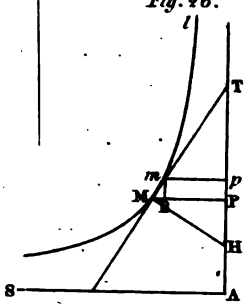


Fig. 3.



CURVE

Fig. 26.



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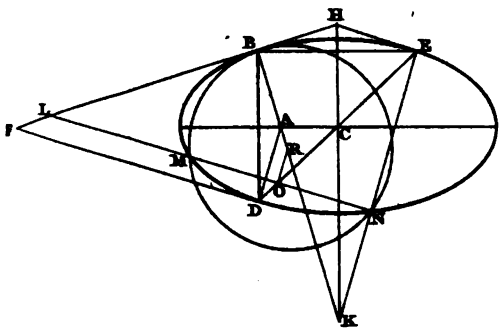
W. Lowry Sc.

ANALYSIS.

CURVATURE.

Fig. 1.



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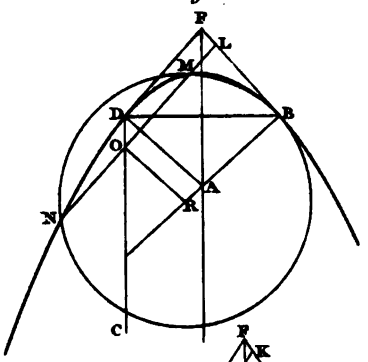

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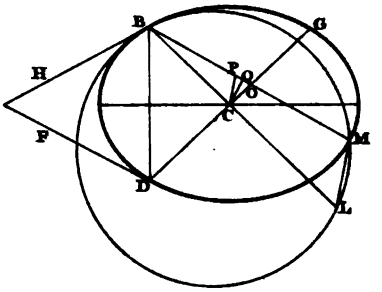

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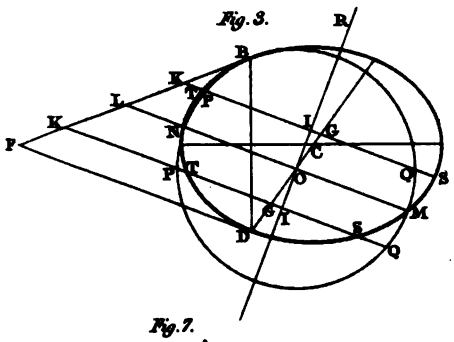

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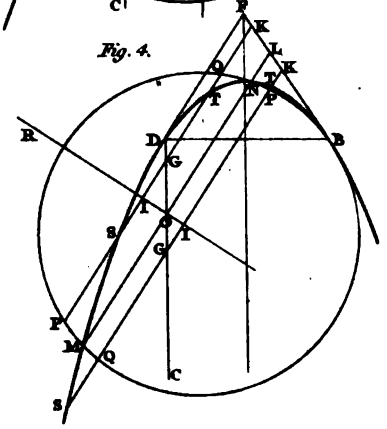

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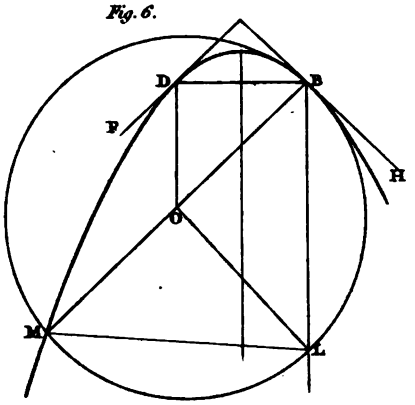

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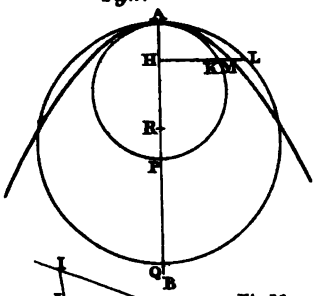

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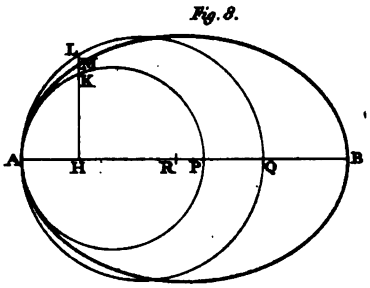

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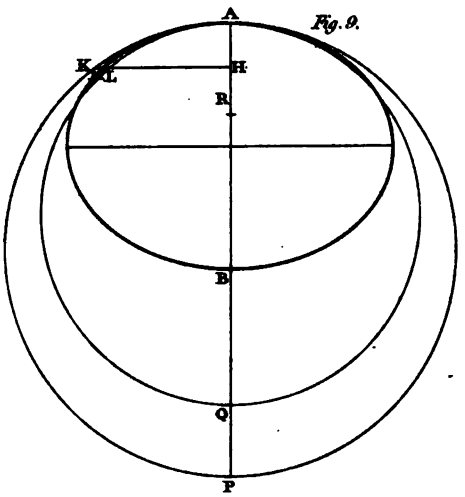

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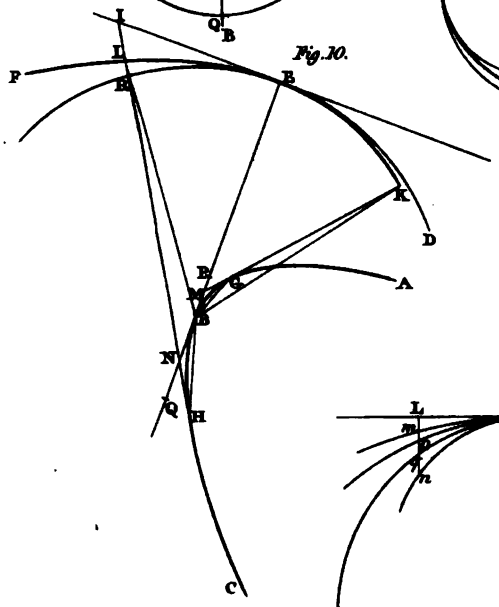

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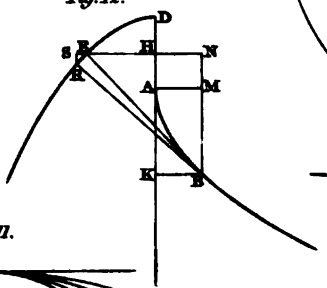

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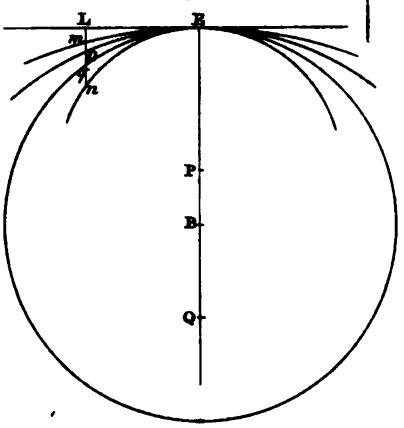

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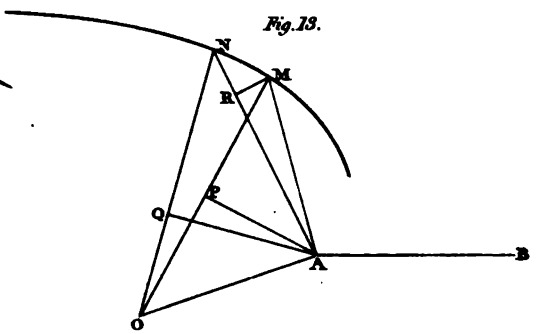

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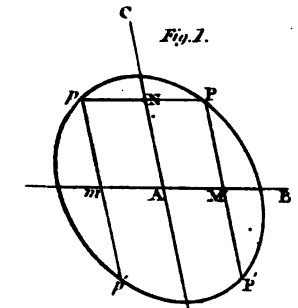
ANALYSIS.

CURVE.



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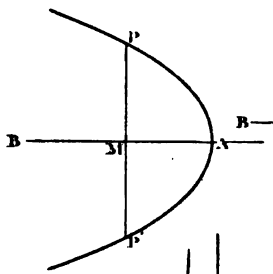

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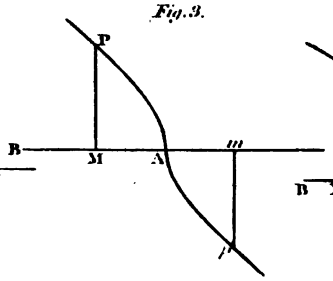

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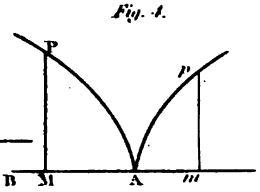

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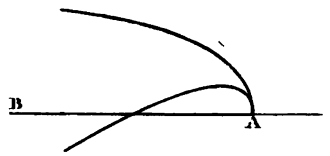

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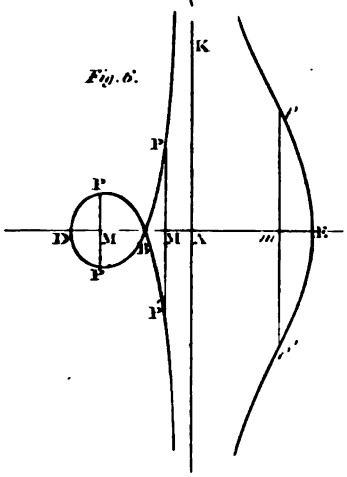

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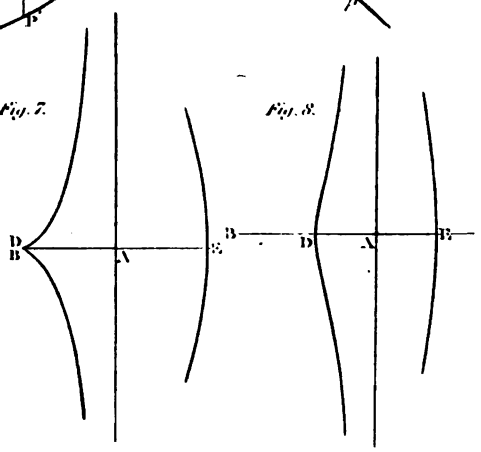
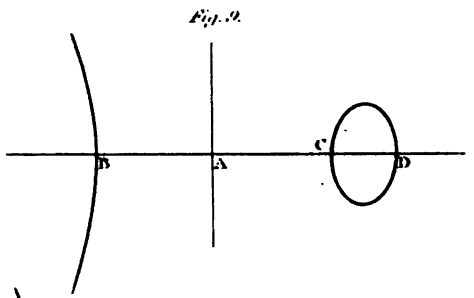


Fig. 7.

Fig. 8.



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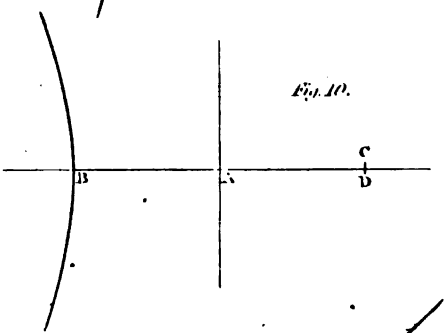

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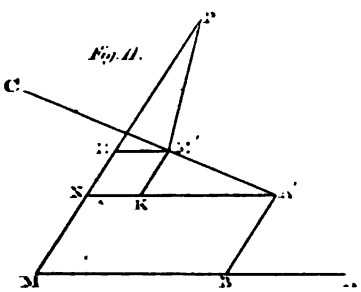

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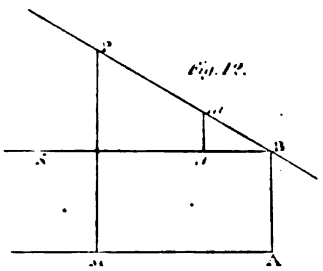

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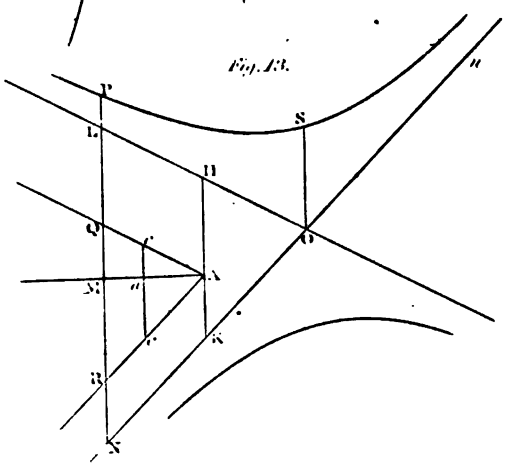

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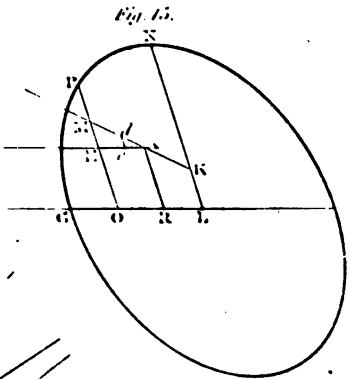

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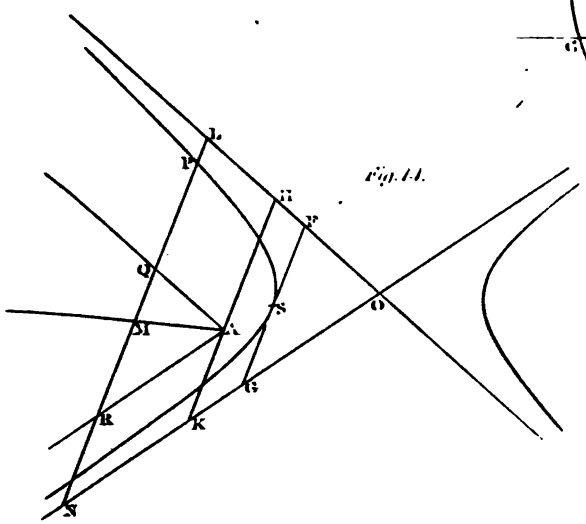

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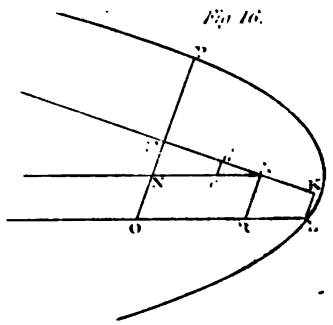

Fig. 16.

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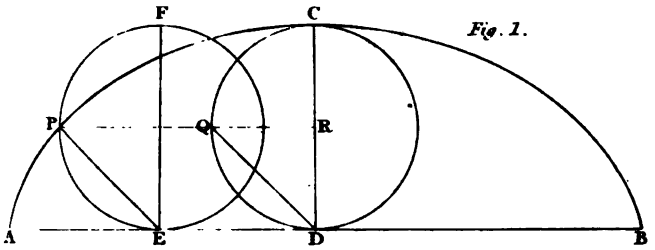
ANALYSIS.

CYCLOID & EPICYCLOID.

Fig. 1.



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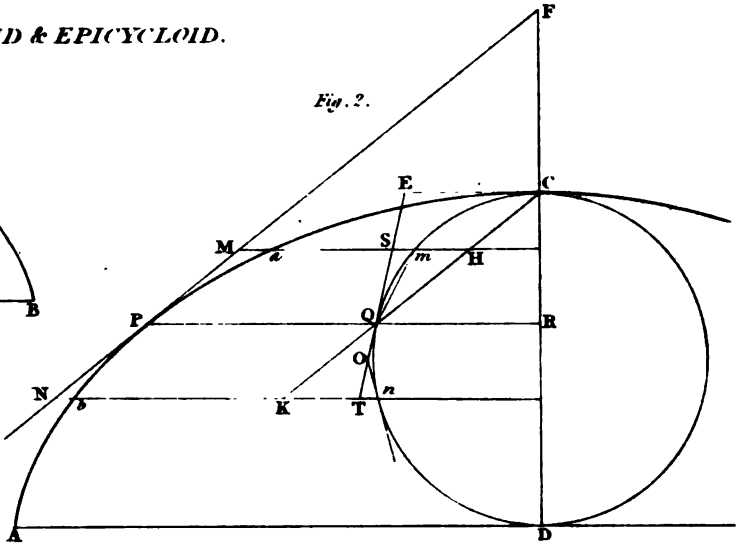

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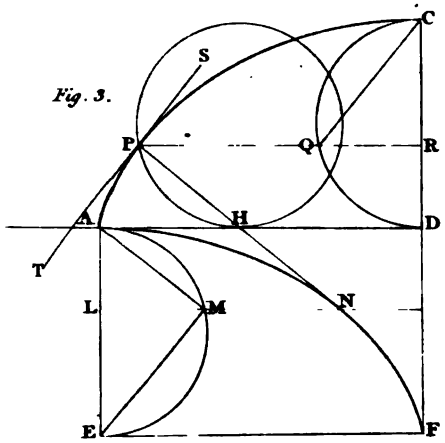

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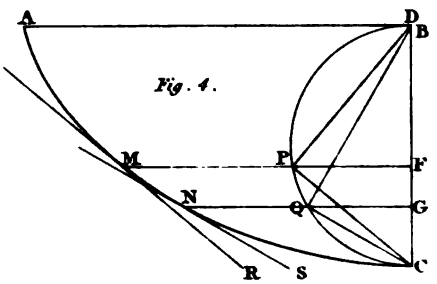
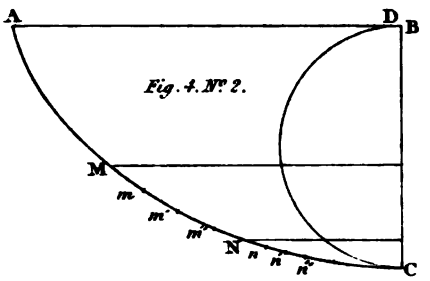


Fig. 4. N°. 2.



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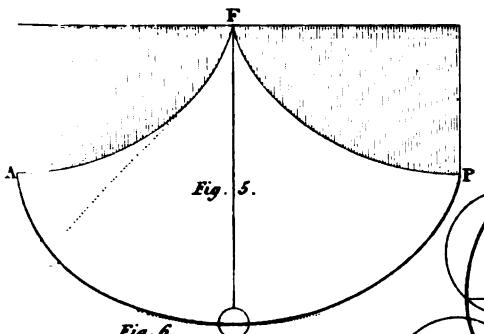

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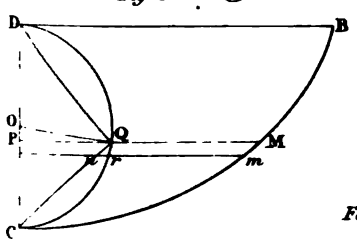

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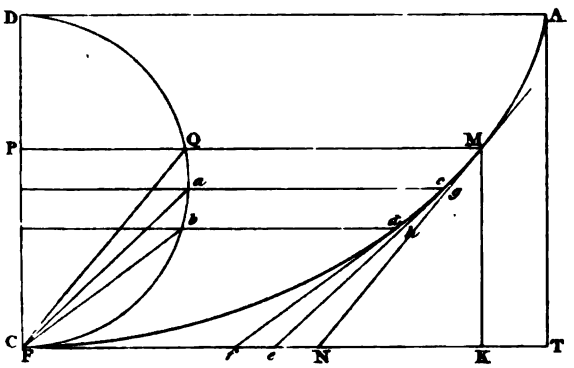

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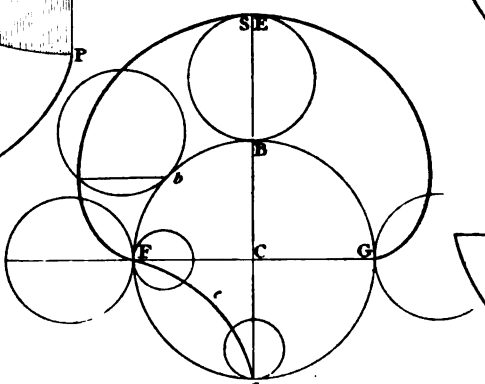

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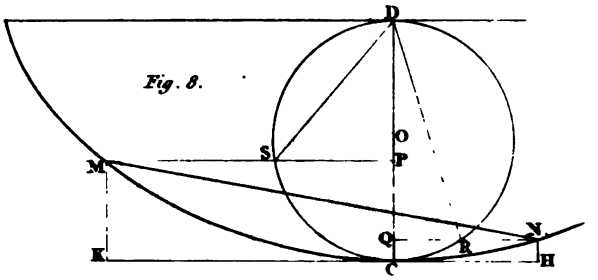

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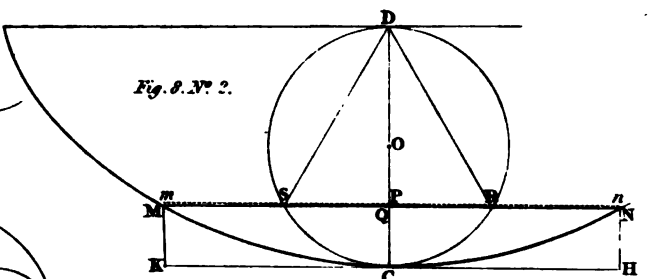

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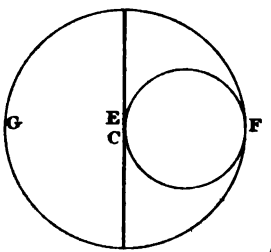

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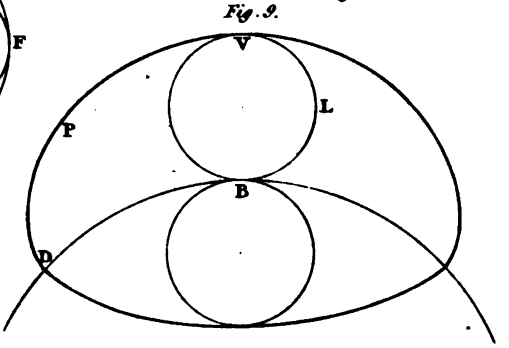

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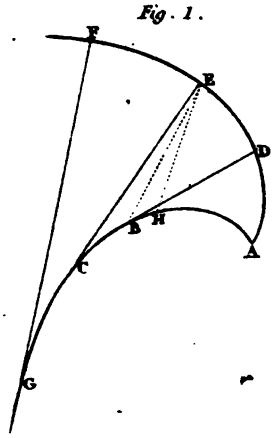
ANALYSIS.

EVOLUTE.

PLATE V, referred to as PL. IV.

Fig. 1.



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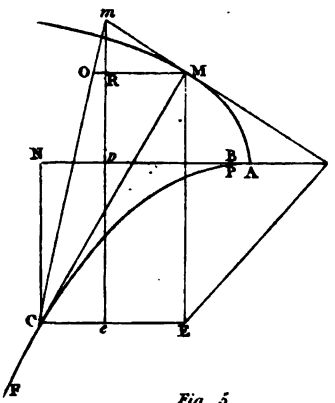

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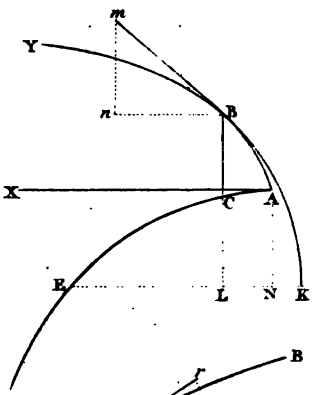

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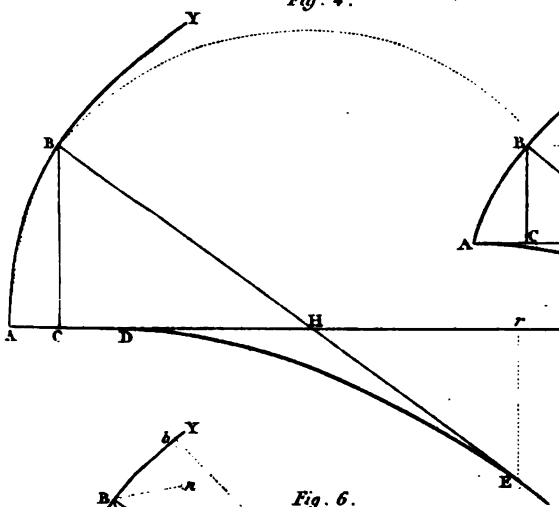

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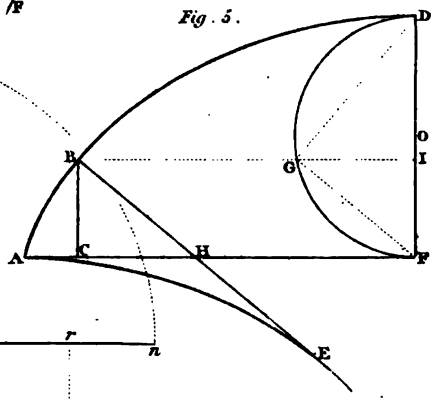

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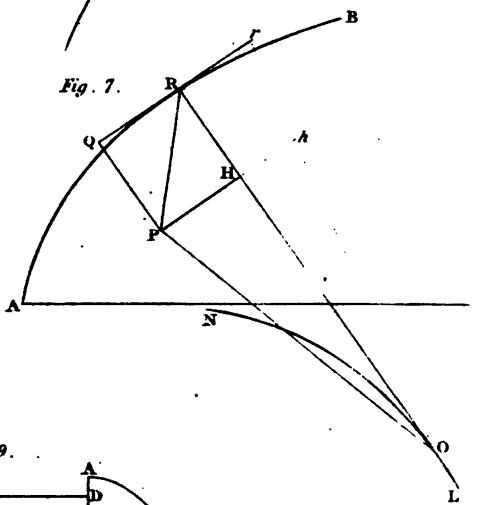

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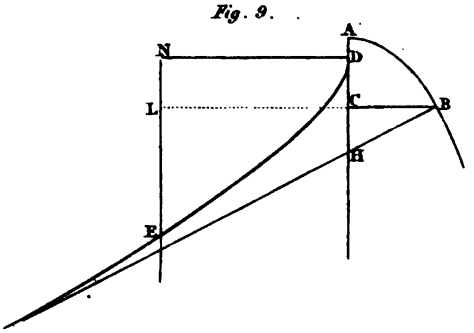


Fig. 6.

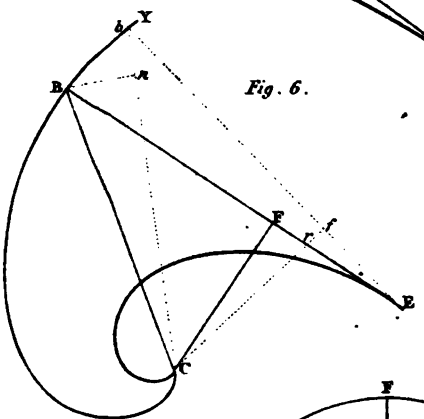
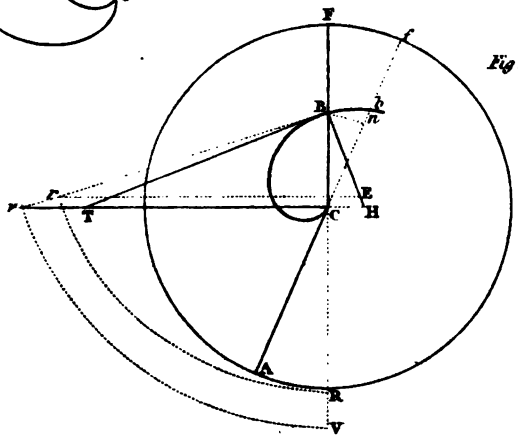


Fig. 8.



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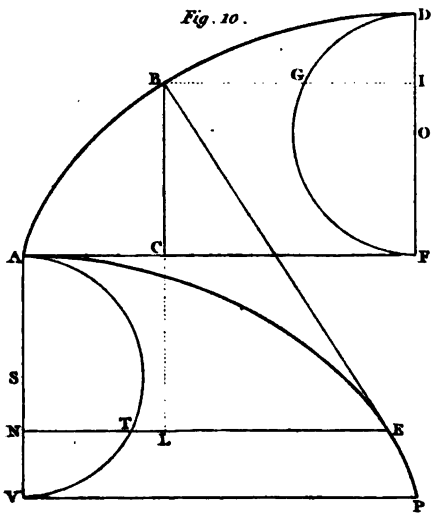

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ANALYSIS.

FLUXION.

Fig. 1.

Fig. 2.

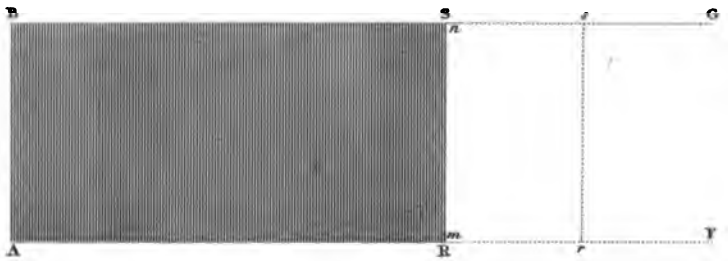
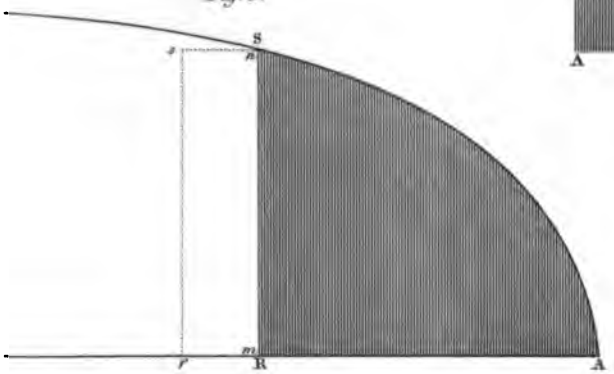


Fig. 3.



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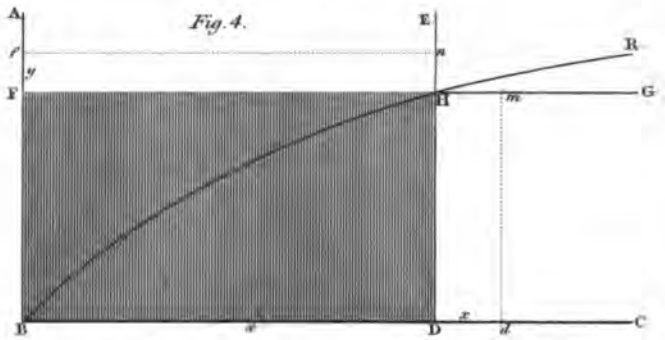
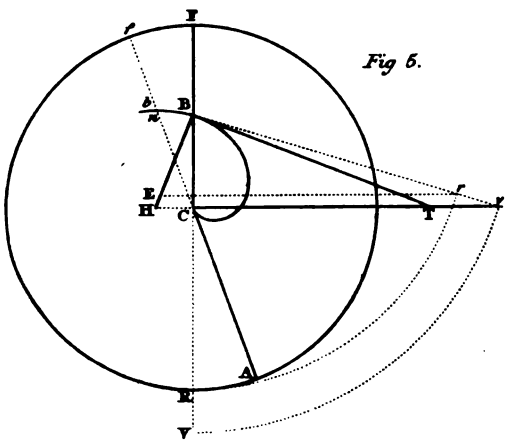


ANALYTIC FUNCTION.

Fig 5.



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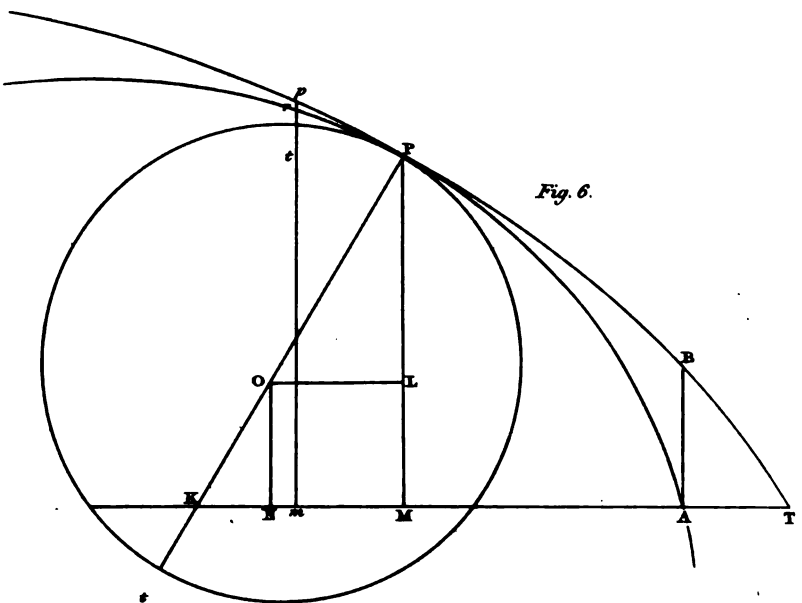

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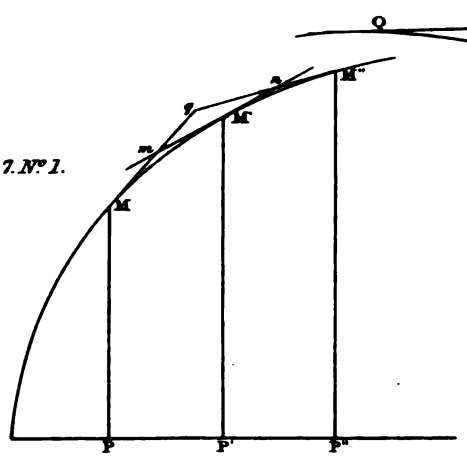

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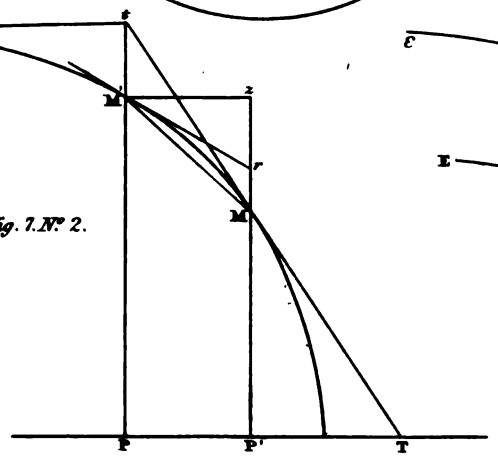

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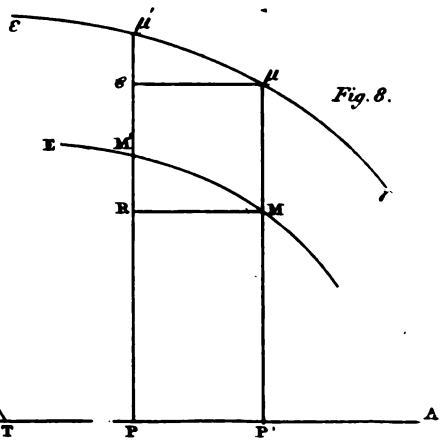

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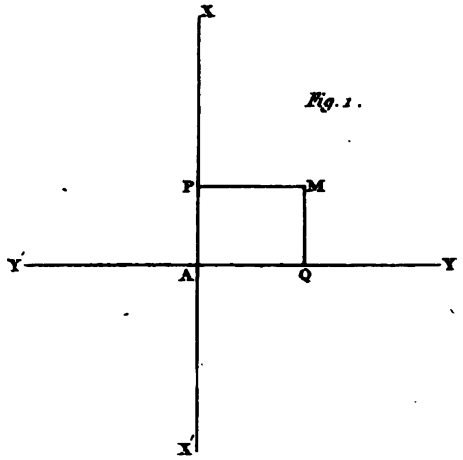
ANALYTIC GEOMETRY.



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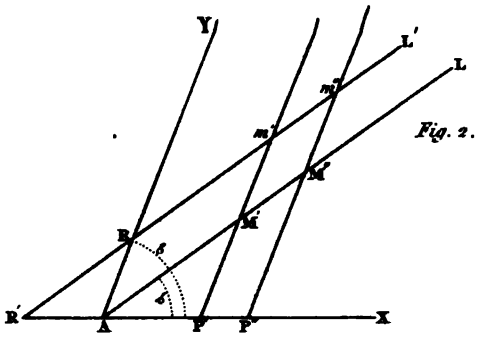

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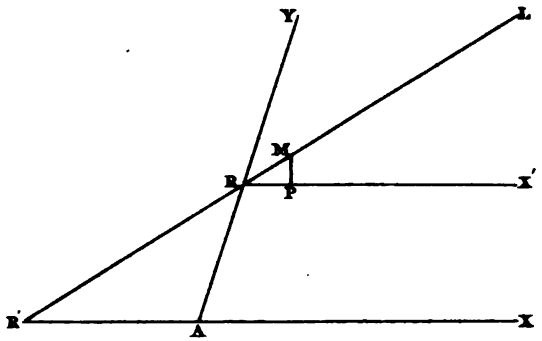
Fig. 3.



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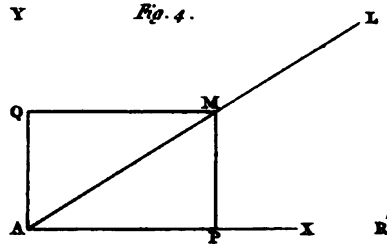

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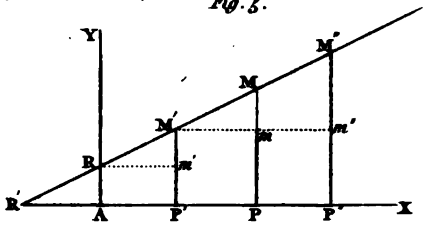

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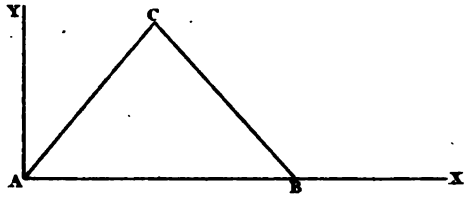

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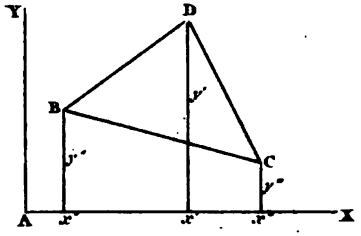

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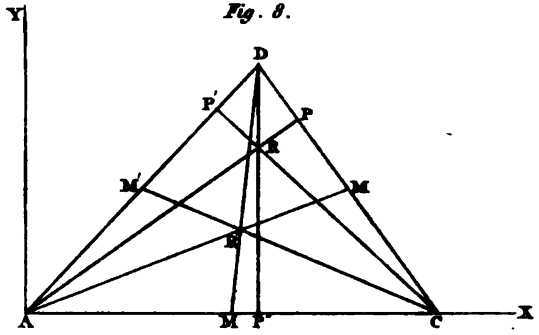

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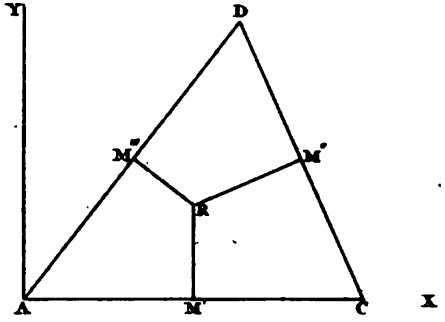

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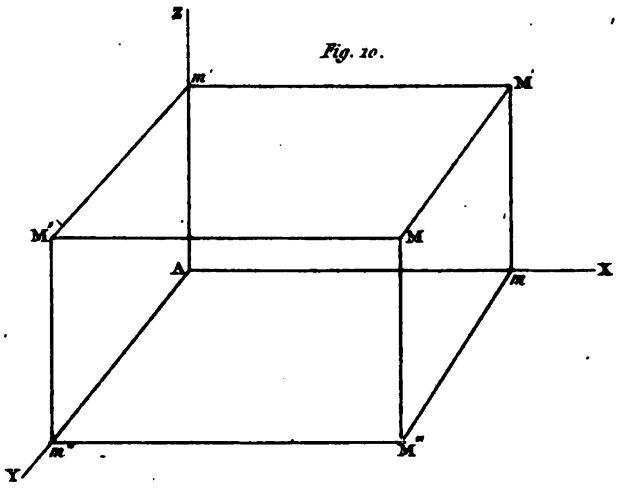

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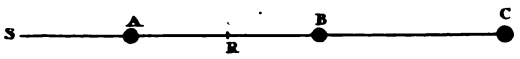
Engraved by Wilson Lowry.

ANALYSIS.

GYRATION.

Fig. 1.



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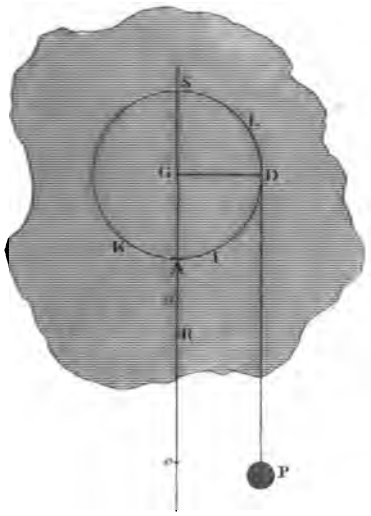

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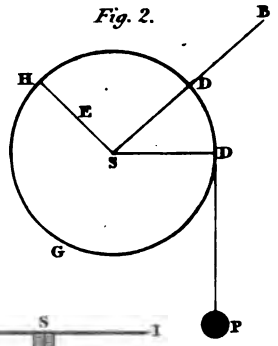

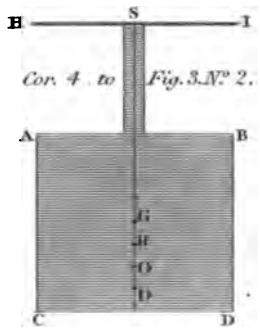

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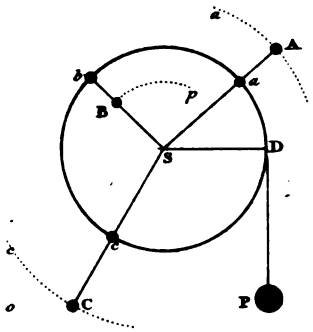

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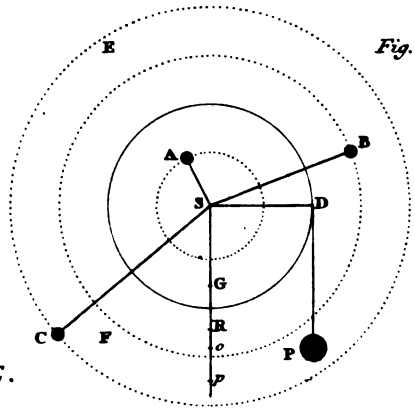
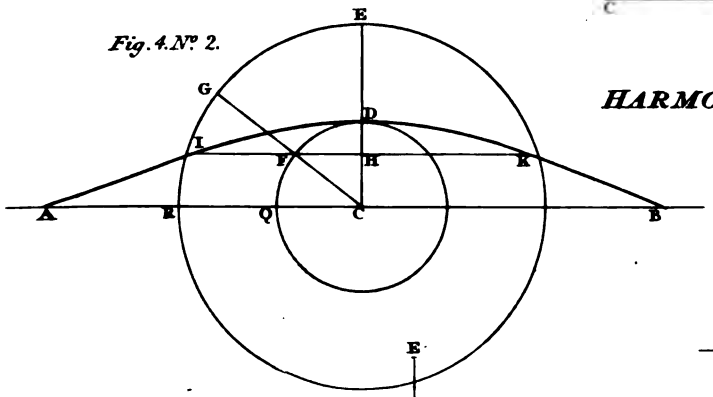


HARMONIC CURVE.

Fig. 4. N° 2.



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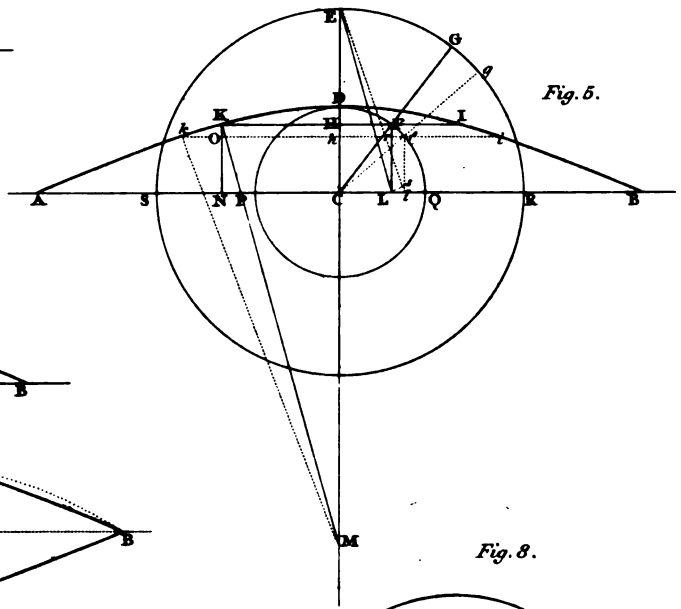

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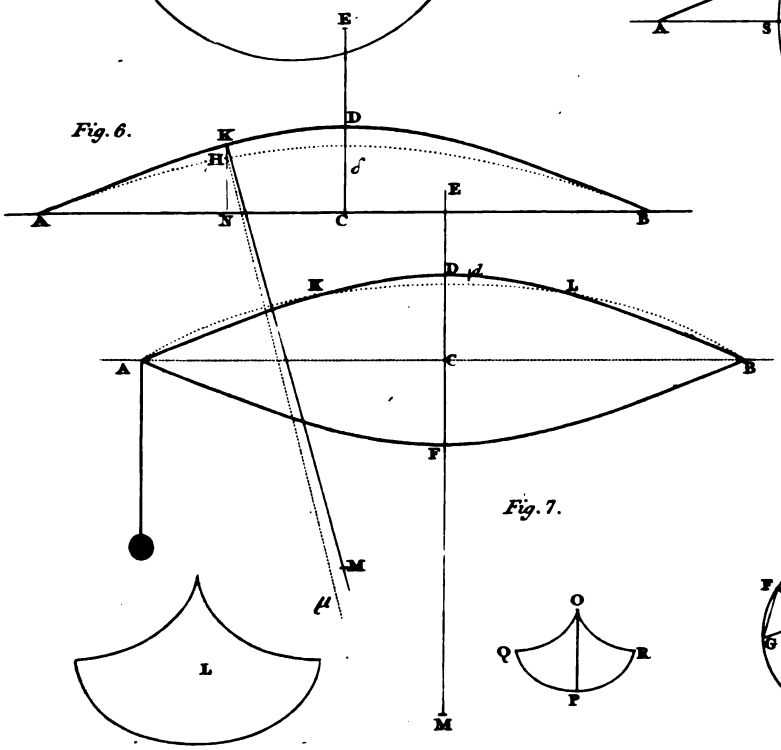

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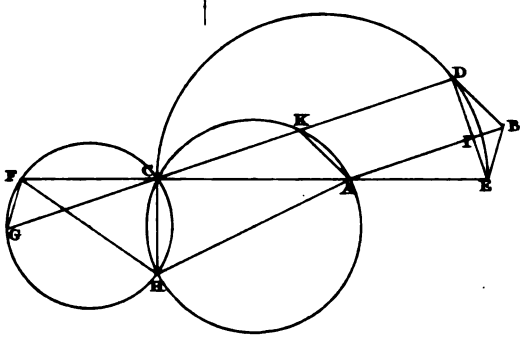

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HELICOID.

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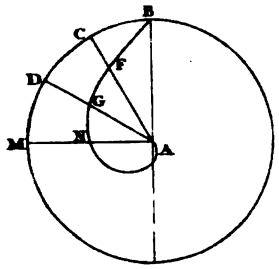

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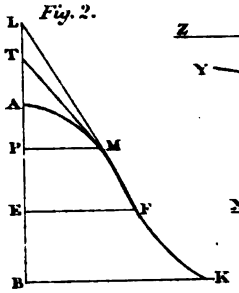

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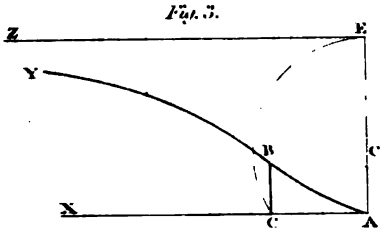

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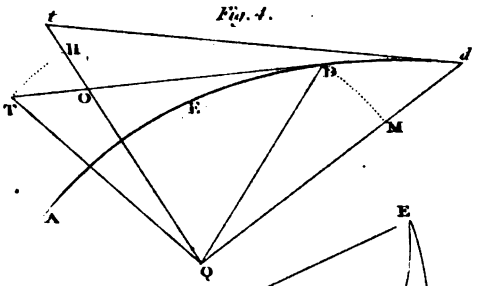

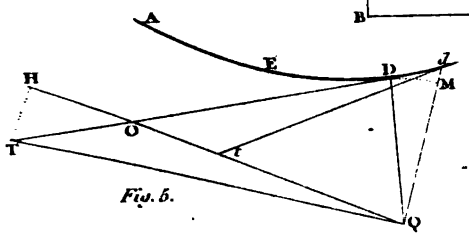

Fig. 5.

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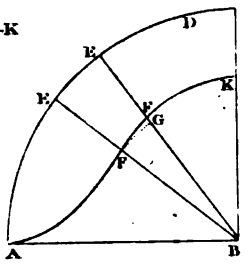


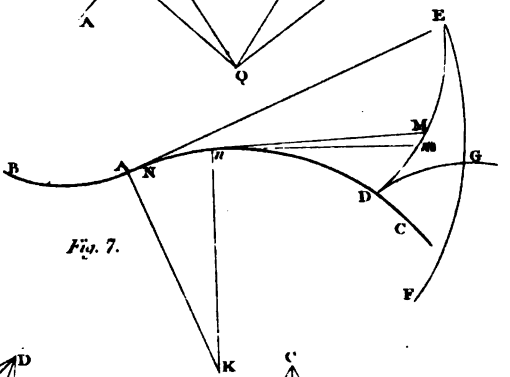
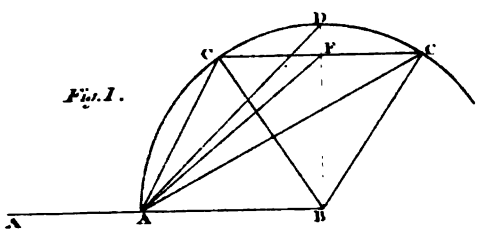


Fig. 7.

ISOPERIMETRY. PLATE IX.

Fig. 1.



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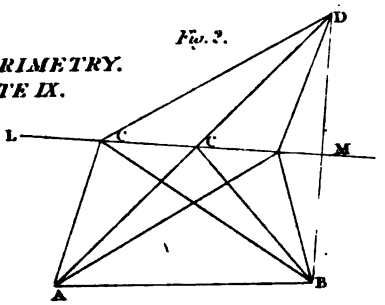

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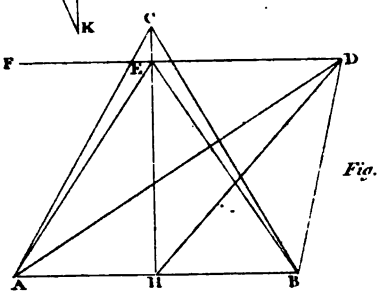

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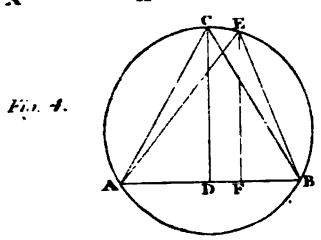

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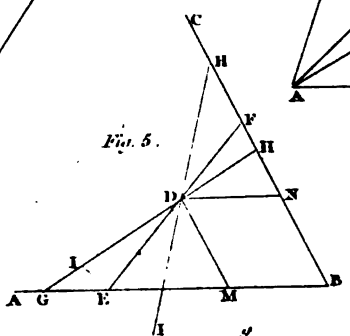

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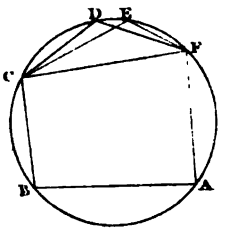

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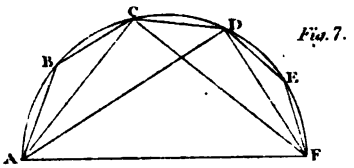

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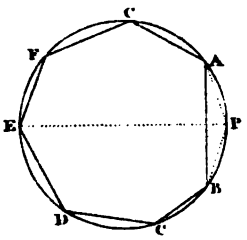

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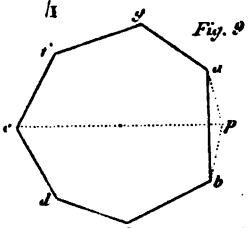

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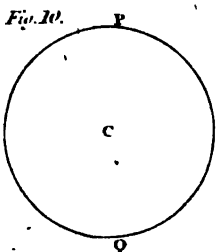

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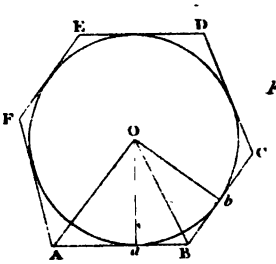

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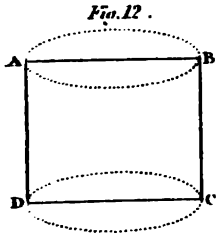

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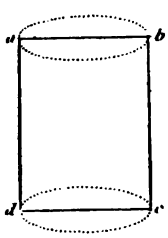

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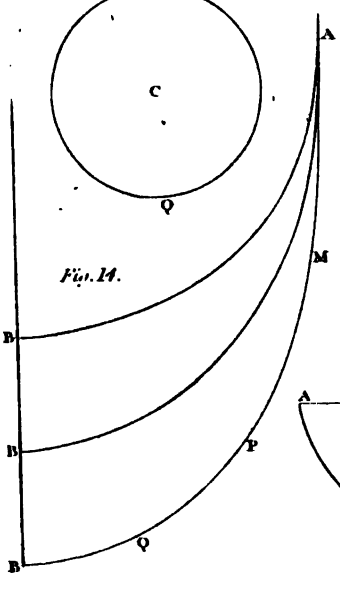

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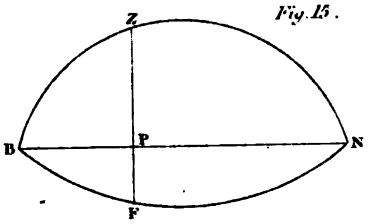

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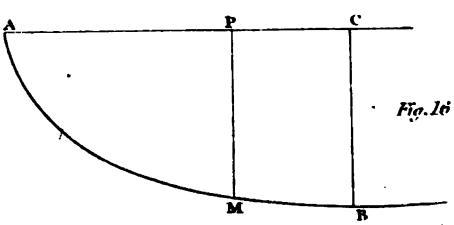

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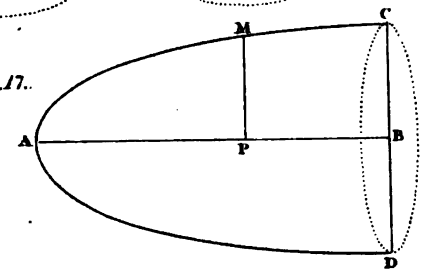

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Lowry sculp.

Fig. 1.

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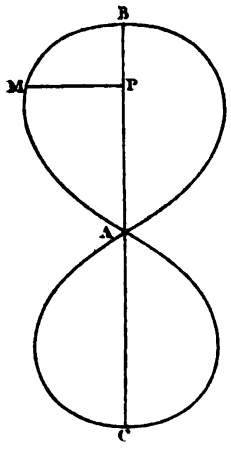

Fig. 2.

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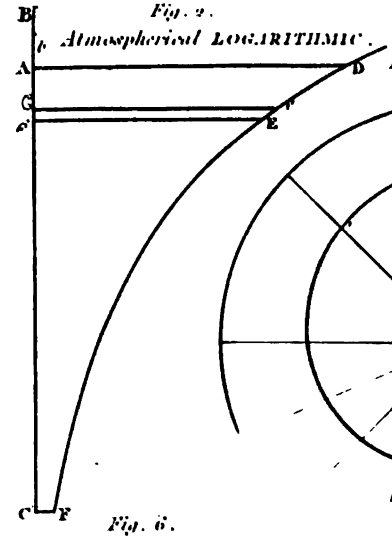


Fig. 5.

LOGISTIC SPIRAL.

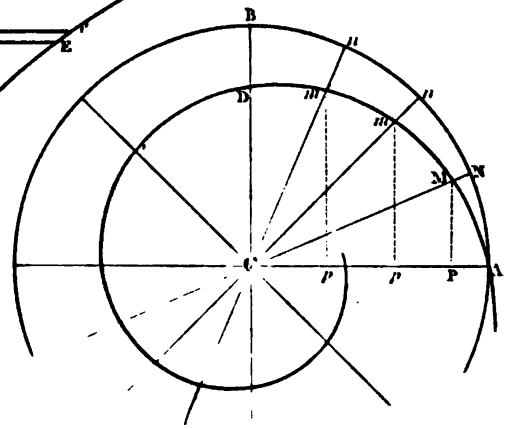


Fig. 4.

LOGISTIC CURVE.

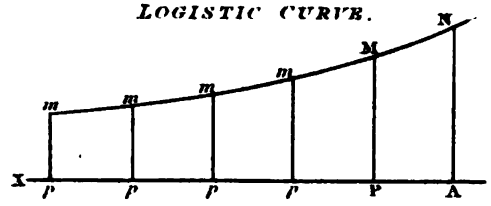


Fig. 3.

LOGARITHMIC.

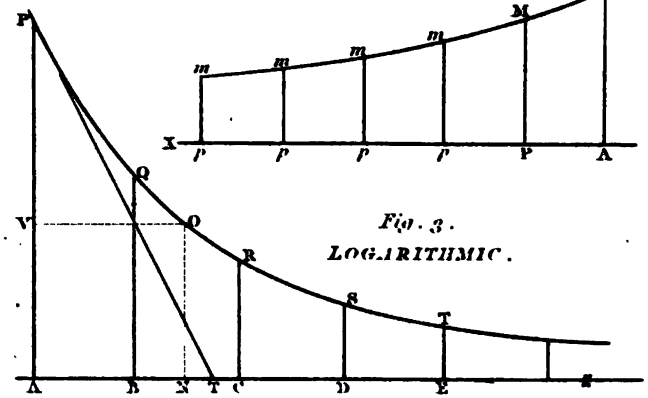


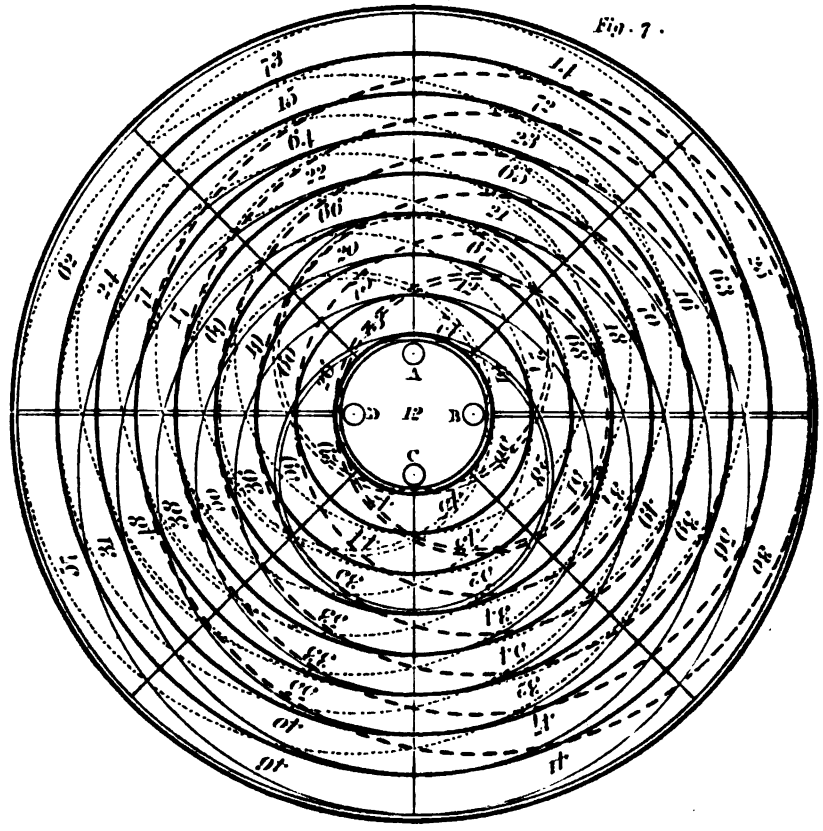
Fig. 6.

MAGIC Square of Squares.

200	217	232	249	8	25	40	57	72	89	104	121	136	153	168	185
58	39	26	7	250	231	218	199	186	167	154	135	122	103	90	71
198	219	230	251	6	27	38	59	70	91	102	123	134	155	166	187
60	37	28	5	252	229	220	197	188	165	156	133	124	101	92	69
201	216	233	248	9	24	41	56	73	88	105	120	137	152	169	184
55	42	23	10	247	234	215	202	183	170	151	138	119	106	87	74
203	214	235	246	11	22	43	54	75	86	107	118	139	150	171	182
53	44	21	12	245	236	213	204	181	172	149	140	117	108	85	76
205	212	237	244	13	20	45	52	77	84	109	116	141	148	173	180
51	46	19	14	243	238	211	206	179	174	147	142	115	110	83	78
207	210	239	242	15	18	47	50	79	82	111	114	143	146	175	178
49	48	17	16	241	240	209	208	177	176	145	144	113	112	81	80
176	225	208	253	4	29	36	61	68	93	100	125	132	157	164	189
62	35	30	3	254	227	222	195	190	163	158	131	126	99	94	67
192	223	226	255	2	31	34	63	66	95	98	127	130	159	162	191
64	33	32	1	256	225	224	193	192	161	160	129	128	97	96	65

MAGIC Circle of Circles.

Fig. 7.



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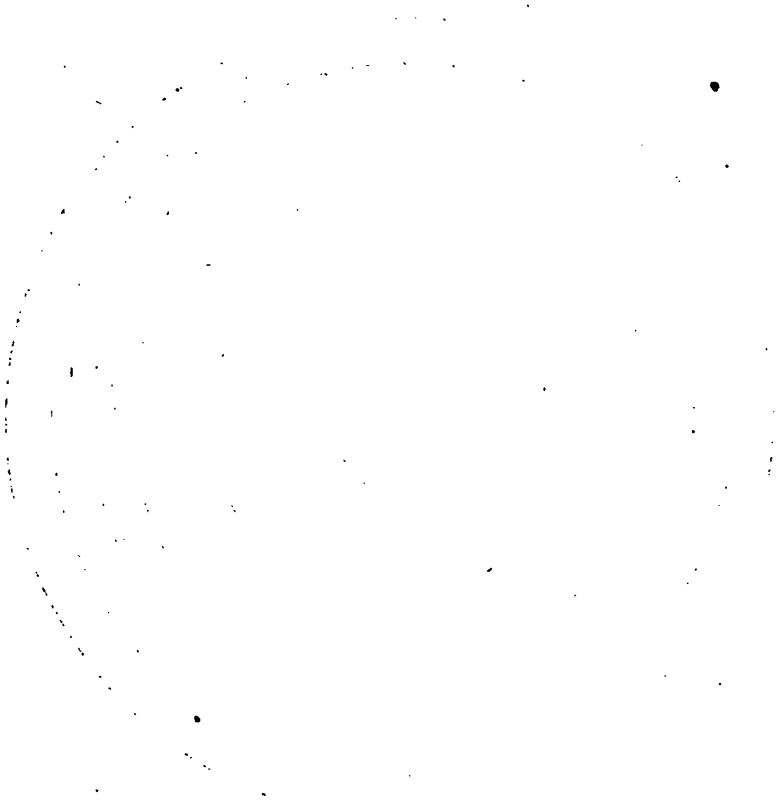


ANALYSIS.

LOCUS.

Fig. 1.

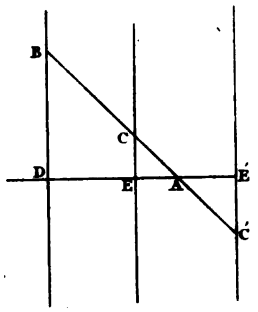


Fig. 2.

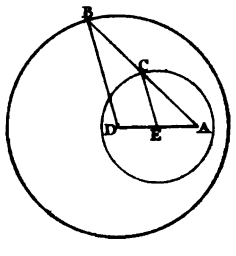
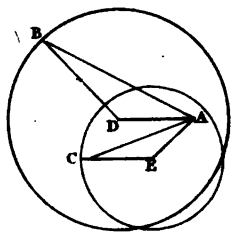


Fig. 3.



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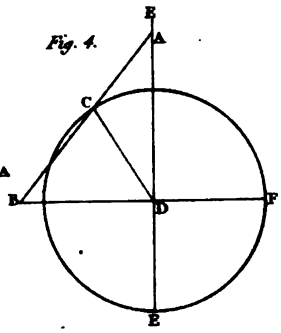

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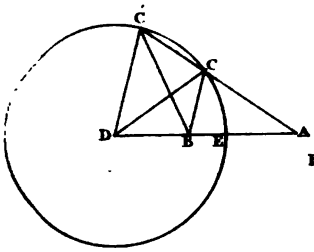

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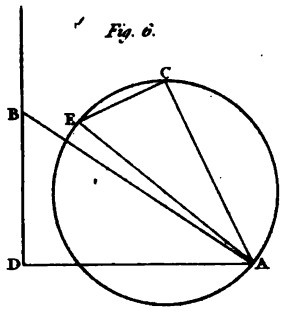

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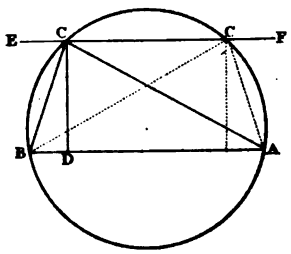

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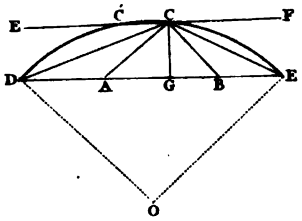

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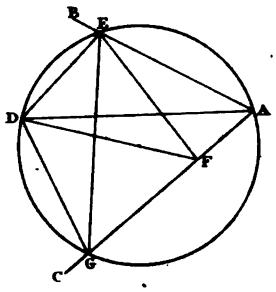

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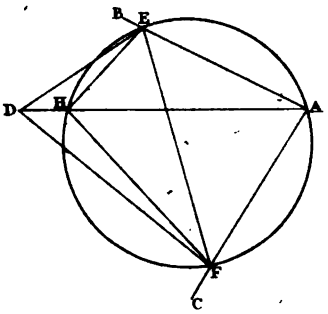

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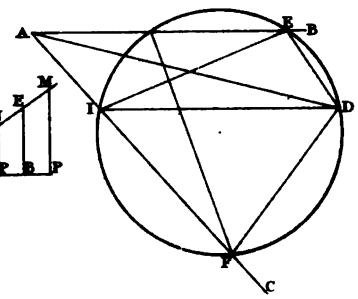

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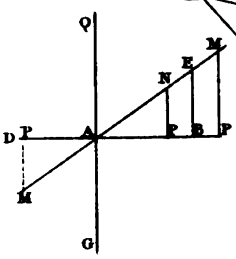

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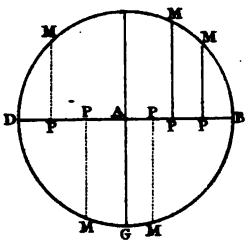

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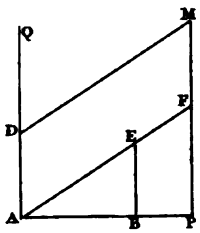

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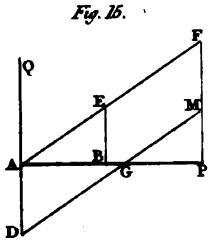

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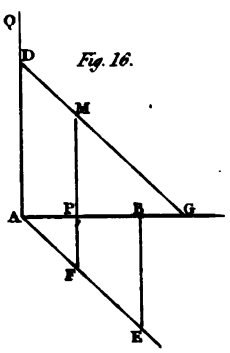

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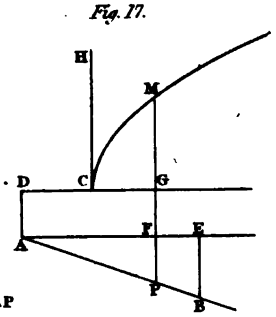

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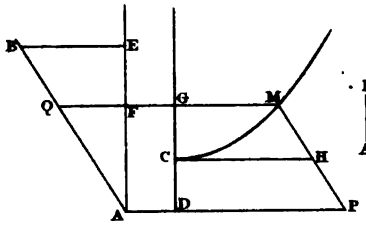

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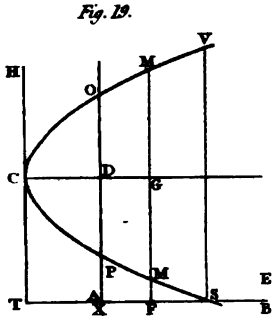

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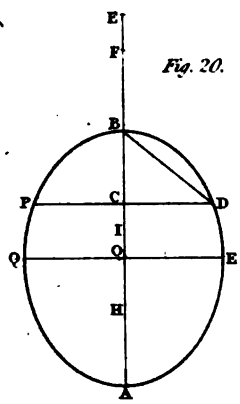

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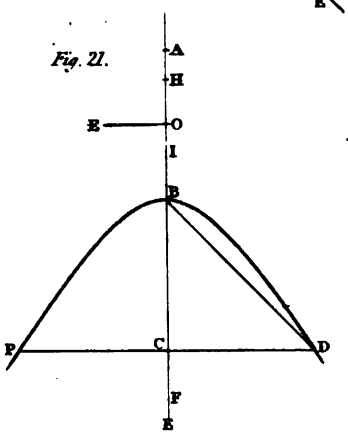

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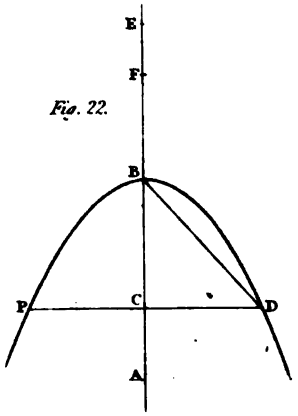

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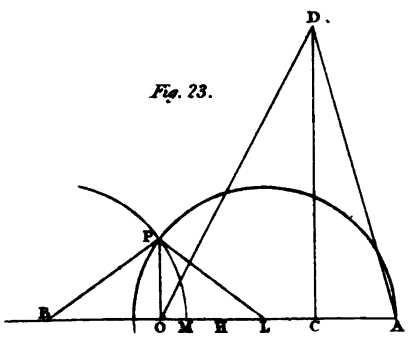


Published as the Act directs, 1802, by Longman, Hurst, Rees, Orme and Brown Paternoster Row, London.

Lowry sculp.

Fig. 1. MAXIMA and MINIMA.

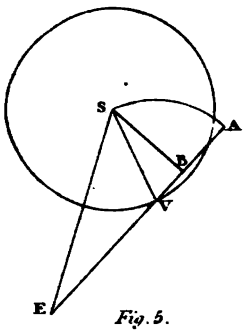
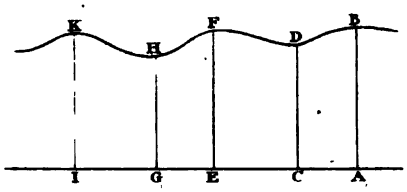


Fig. 2.



PARABOLIC Curves.

Fig. 3.

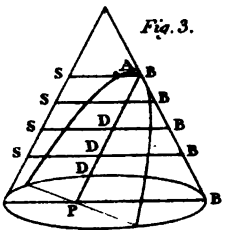


Fig. 4.

Analytic PARALLELOGRAM.

x^4	x^4y	x^4y^2	x^4y^3	x^4y^4
x^3	x^3y	x^3y^2	x^3y^3	x^3y^4
x^2	x^2y	x^2y^2	x^2y^3	x^2y^4
x	xy	xy^2	xy^3	xy^4
1	y	y^2	y^3	y^4

QUADRATIC Equation.

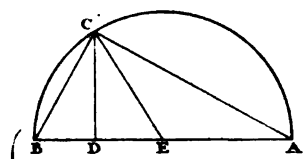


Fig. 5.

PROGRESSION.

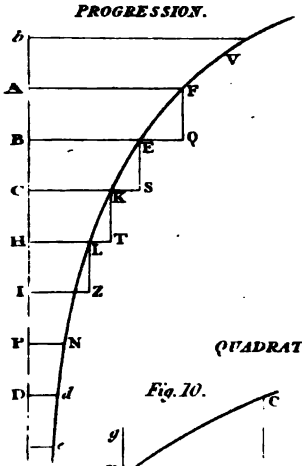


Fig. 6.

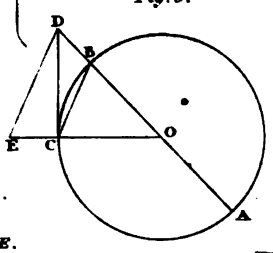


Fig. 7.

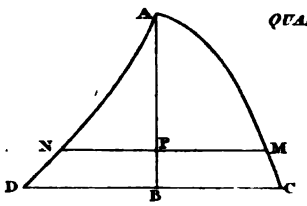
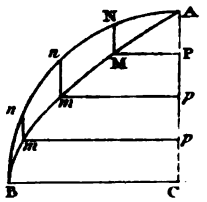


Fig. 9.

QUADRATRIX.



QUADRATURE.

Fig. 10.

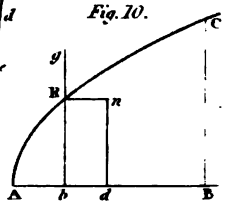
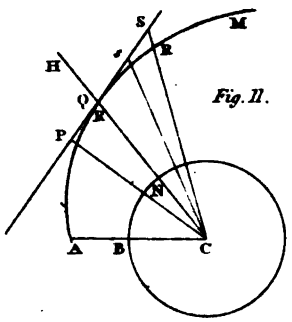


Fig. 11.



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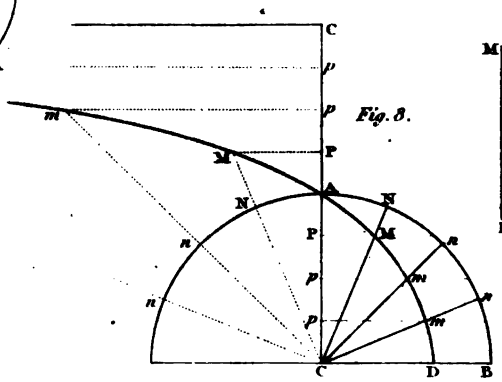

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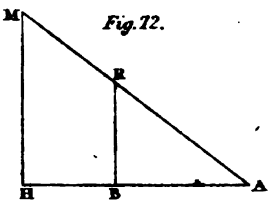

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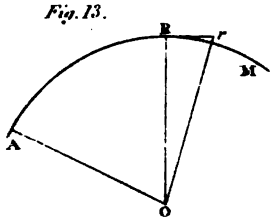

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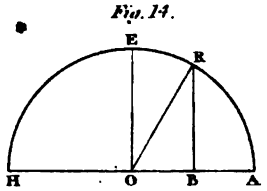

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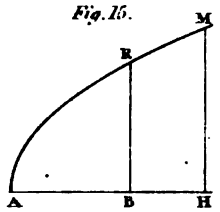

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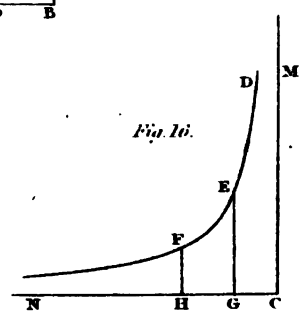

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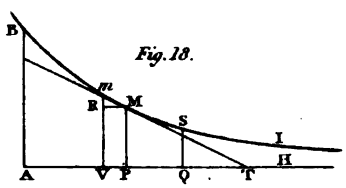

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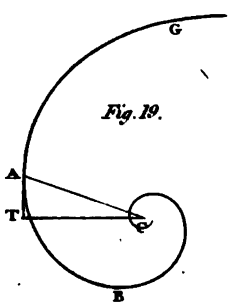

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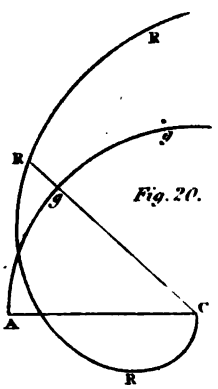
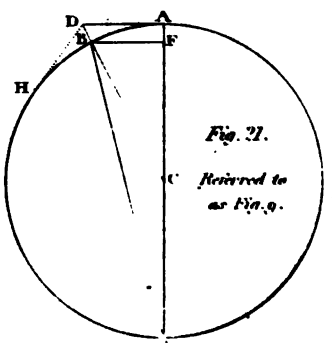


RATIO.

Fig. 21.



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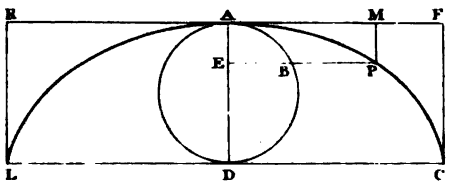

Published as the Act directs, 1805, by Longman, Hurst, Rees, Orme & Brown Paternoster Row, as Act directs.

ANALYSIS.

RECTIFICATION.

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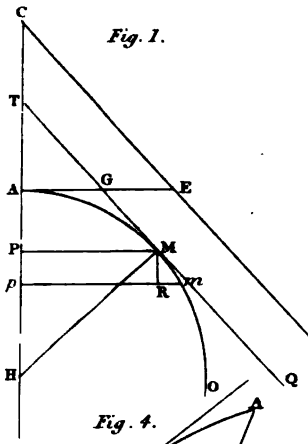

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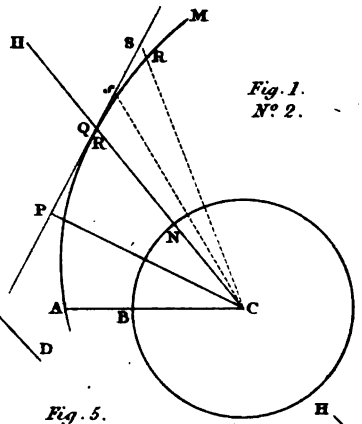


Fig. 2.

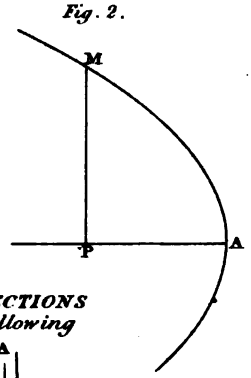
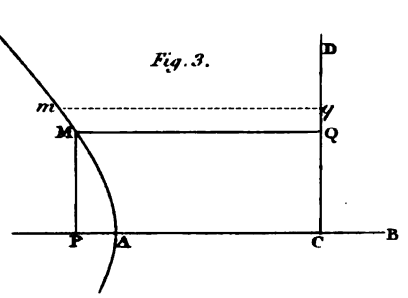


Fig. 3.



SECTIONS following

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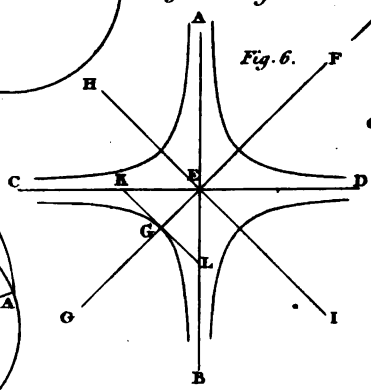
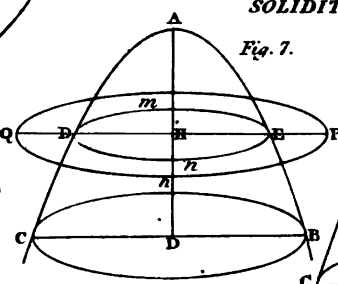


SOLIDITY

Fig. 7.



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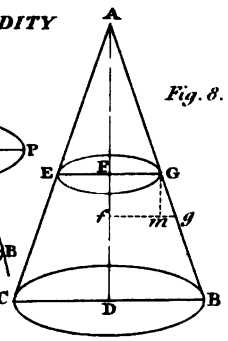
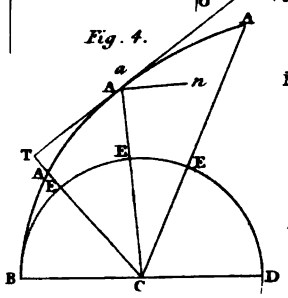


Fig. 4.



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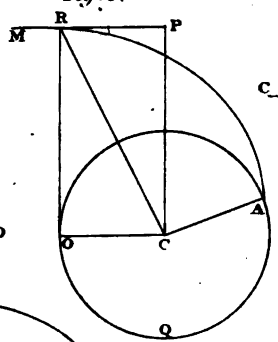
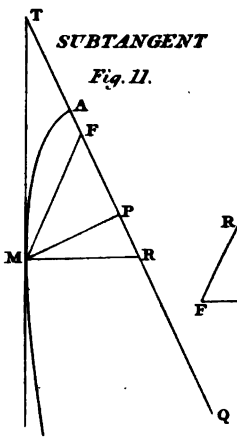


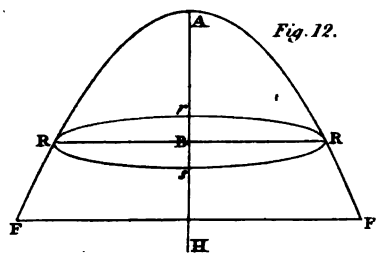
SUBTANGENT

Fig. 11.



SUPERFICIES

Fig. 12.



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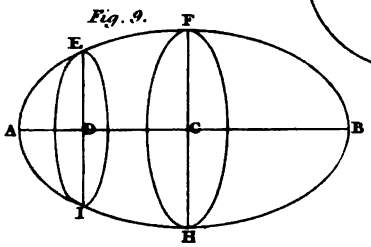

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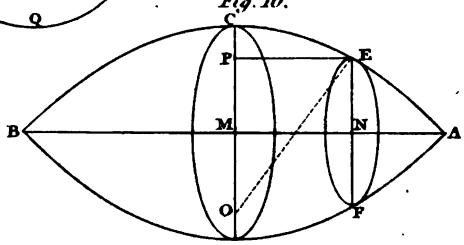
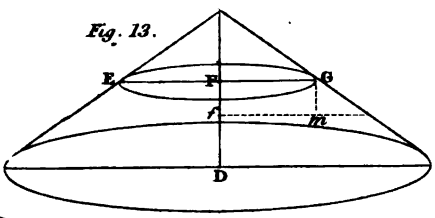


Fig. 13.



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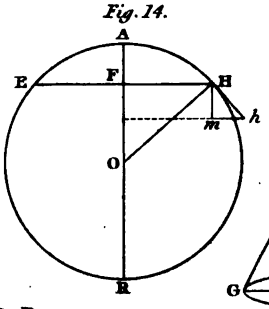
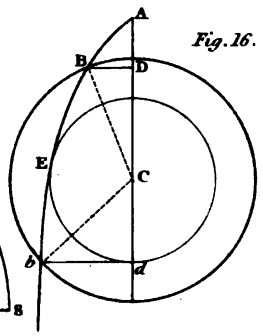


TANGENT

Fig. 16.



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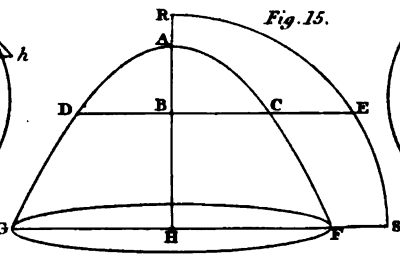
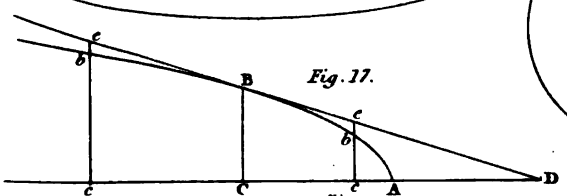


Fig. 17.



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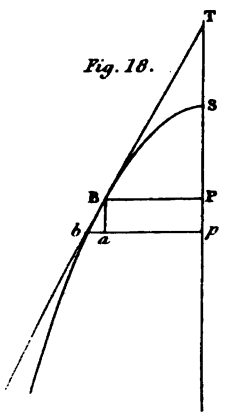

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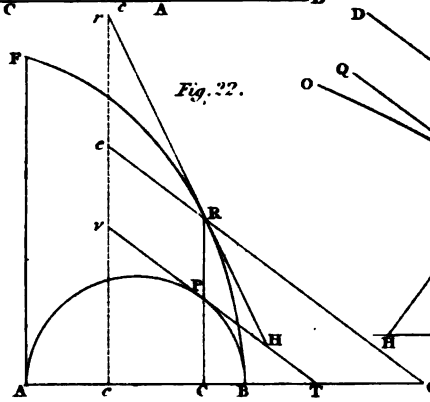

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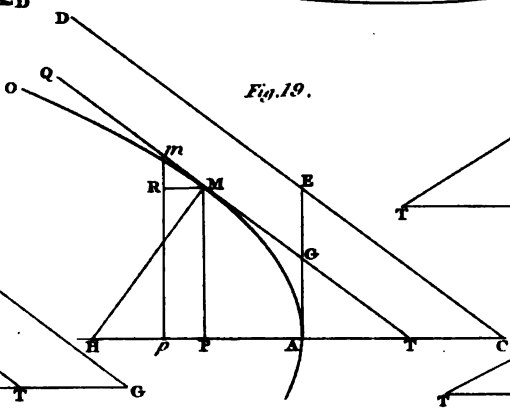

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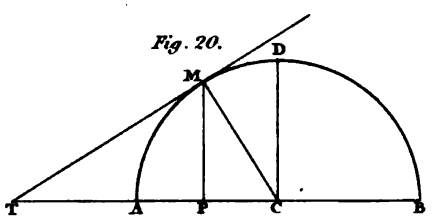

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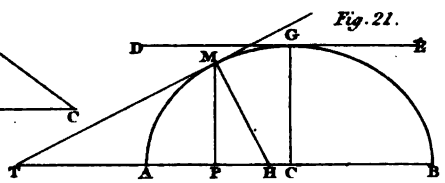

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Lowry Sc.

ANATOMY.

Organs of Sense.

Eye.

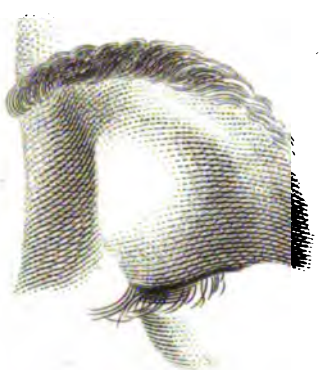
FIG.I.

II

III

IV

V



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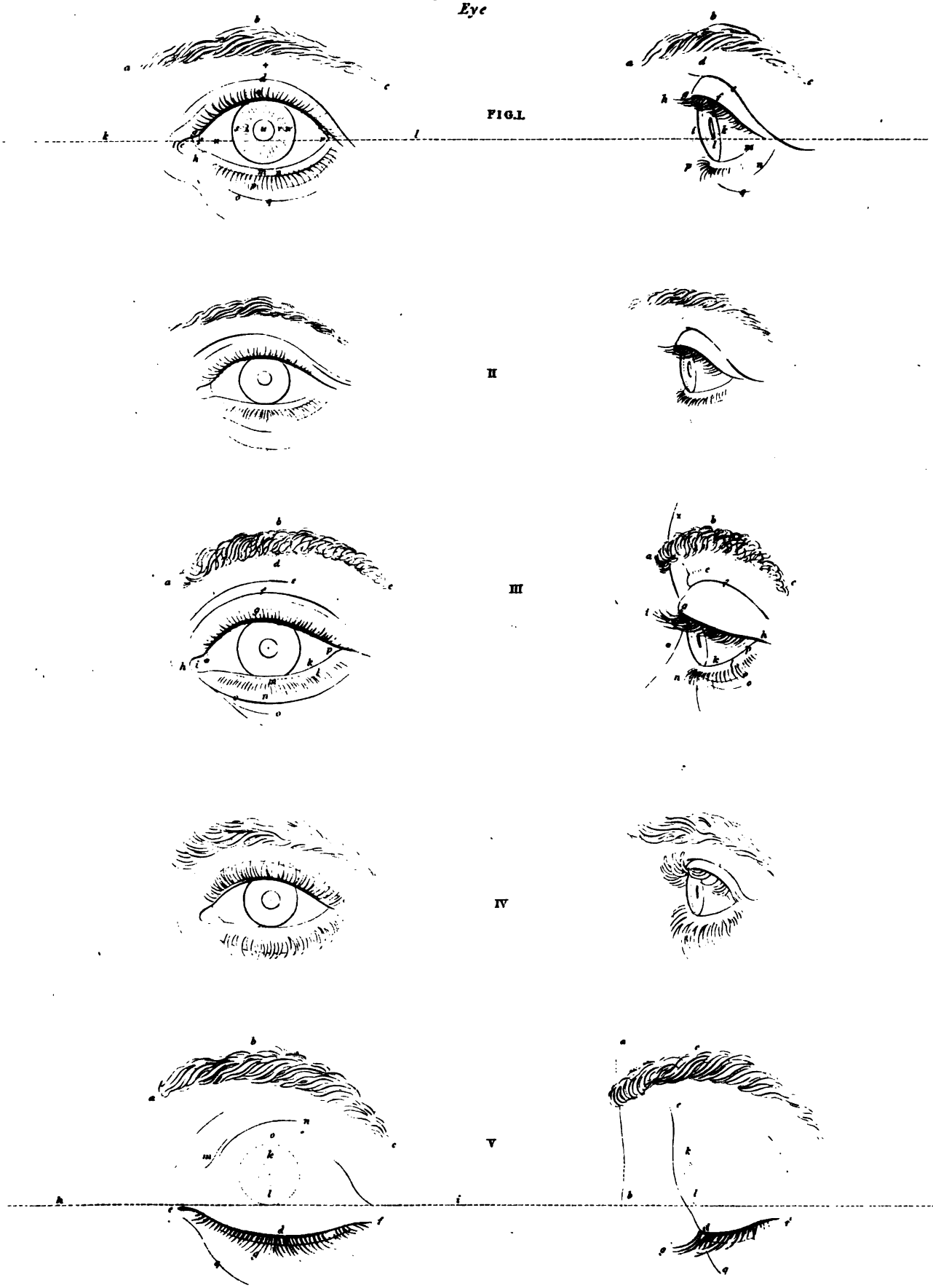
ANATOMY.

Organs of Sense.

Eye



Published as the Act directs, Dec. 1st 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

Milton sc.

ANATOMY.

Organs of Sense.

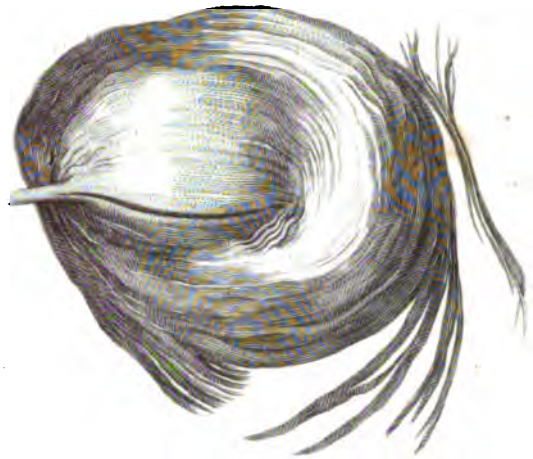
Eye.

III

IV

II

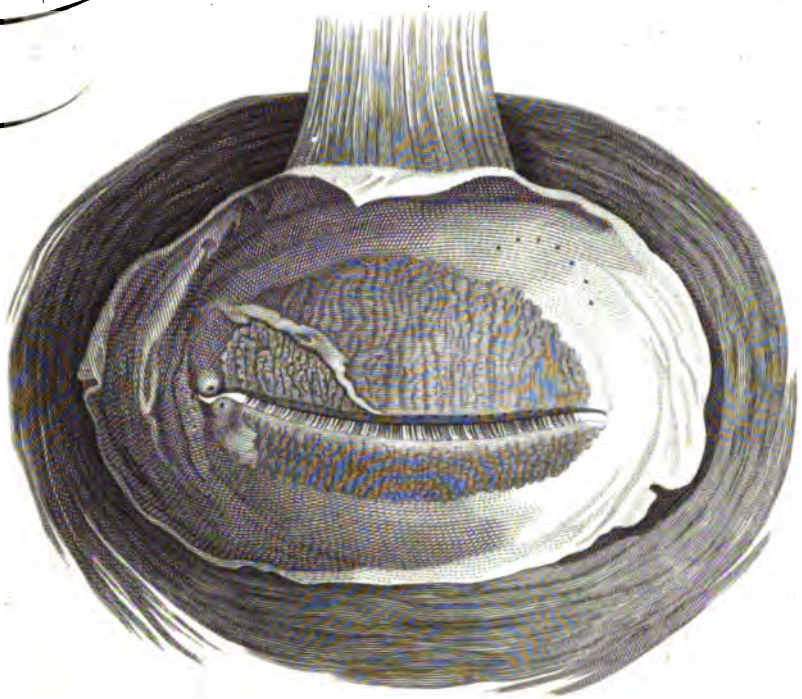
FIG. I.



V

VI

VIII.

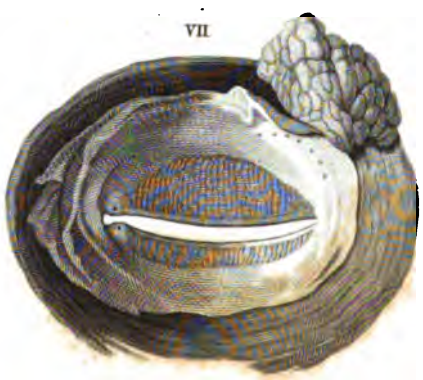


IX

X

XI

VII



Published as the Act directs. Oct.1st 1810, by Longman Hurst Rees, Orme & Brown, Paternoster Row.

Milton

III

IV

II

V

VI

FIG. 1.

VIII

IX

X

XI

VII

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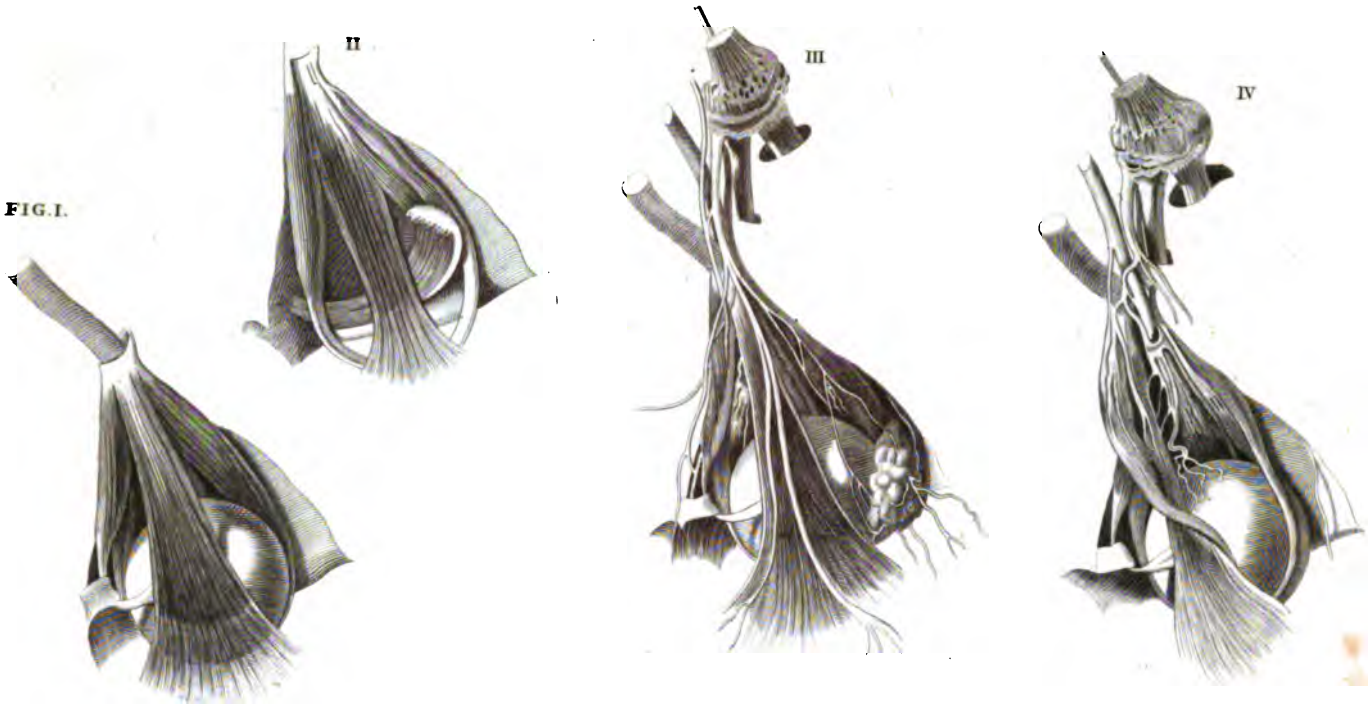
Allen sc.

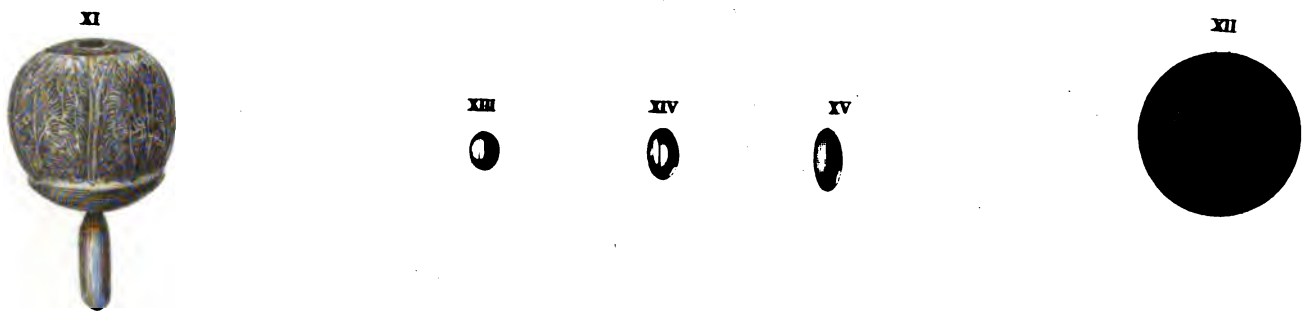
ANATOMY.

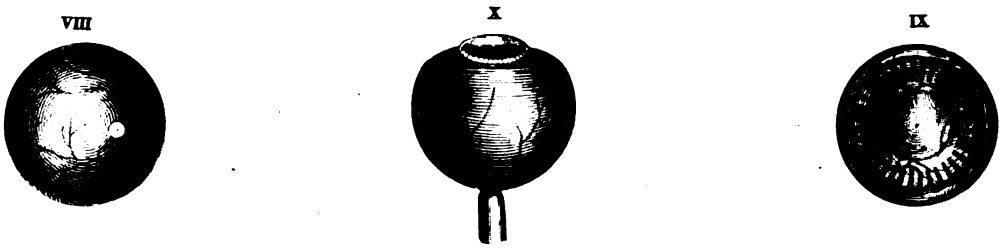
Organs of Sense.

Eye.

FIG. I.







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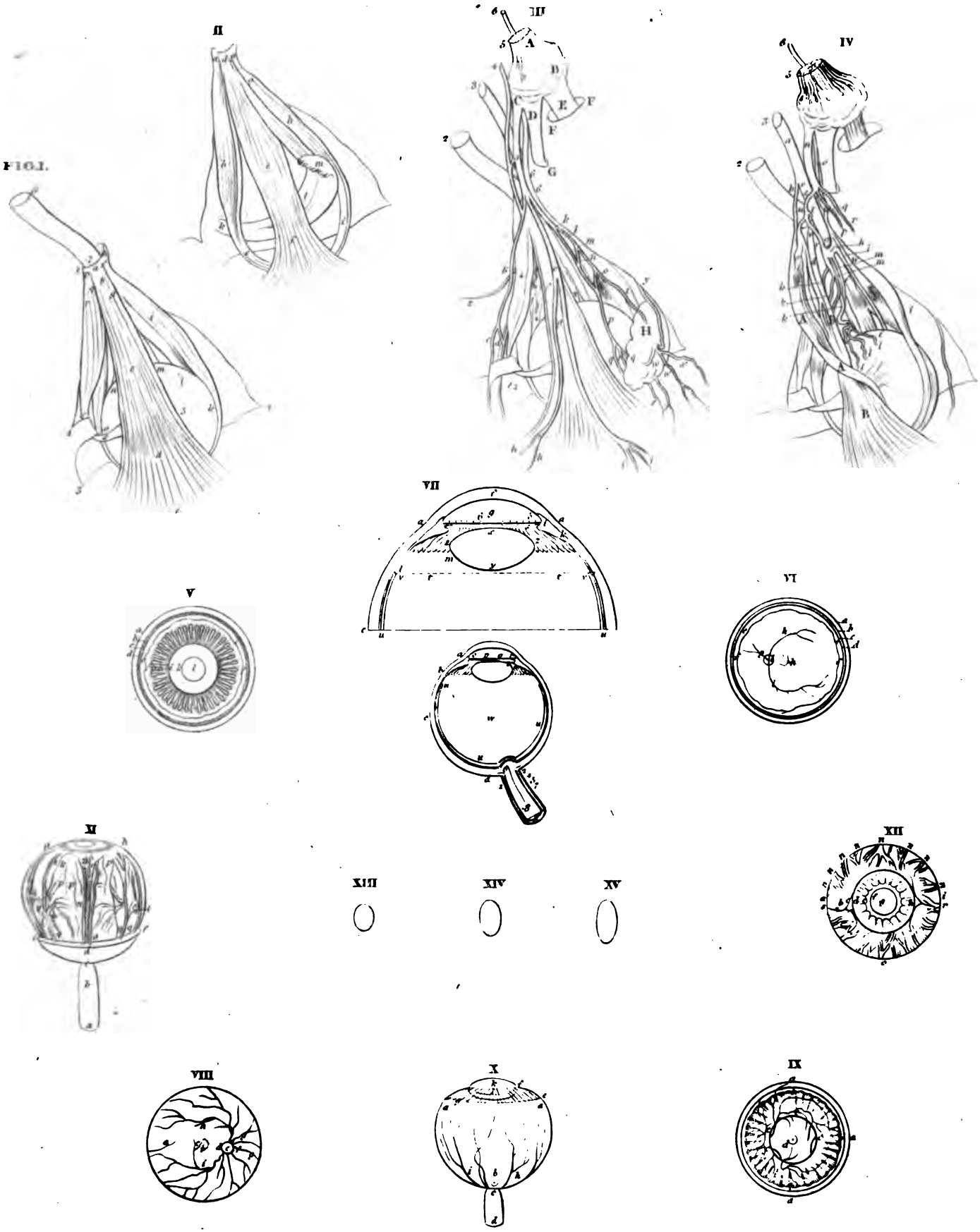
ANATOMY.

Organs of Sense.

Eye.

PLATE III



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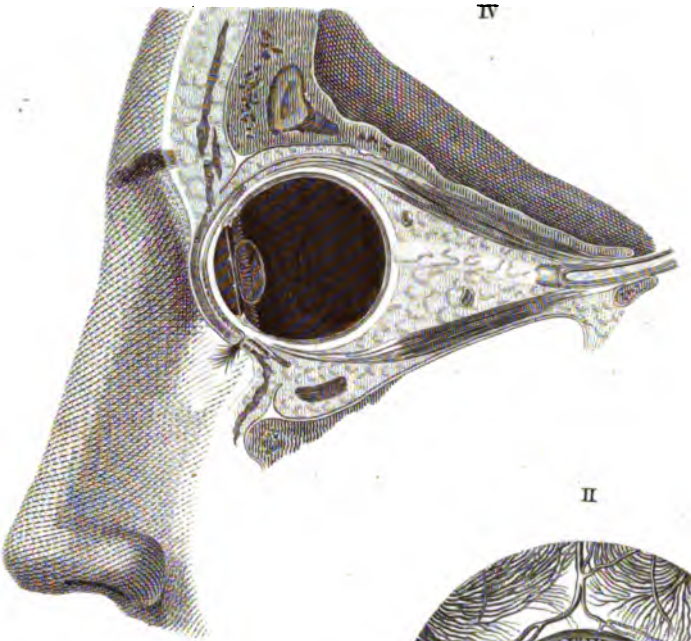
Milton sc.

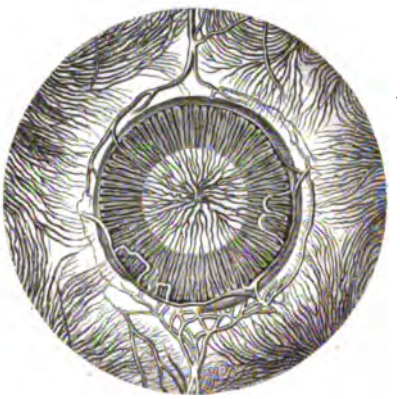
ANATOMY.

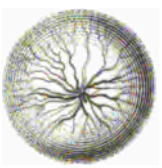
Organs of Sense.

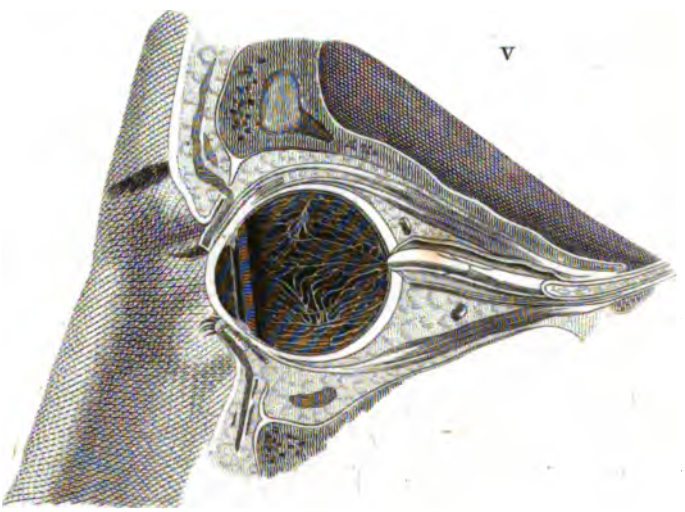
Eye.

FIG. I.









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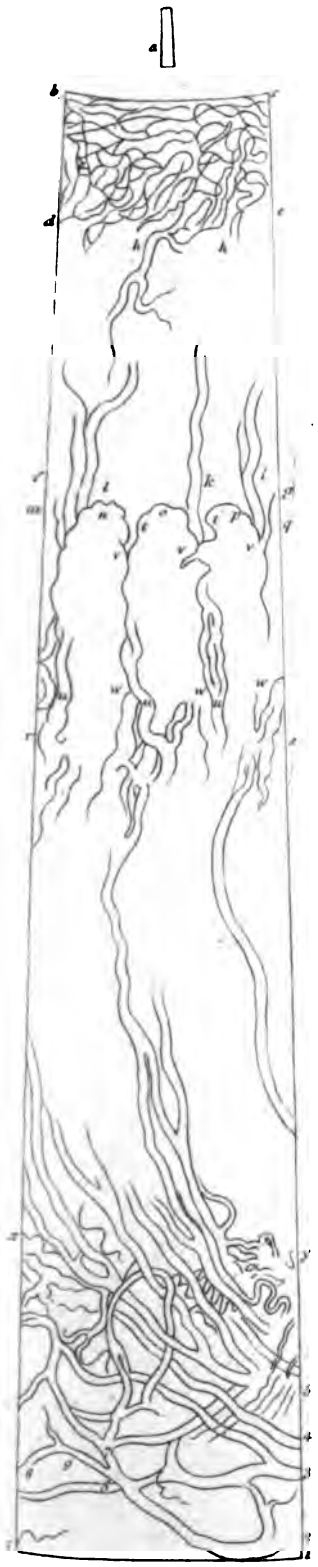
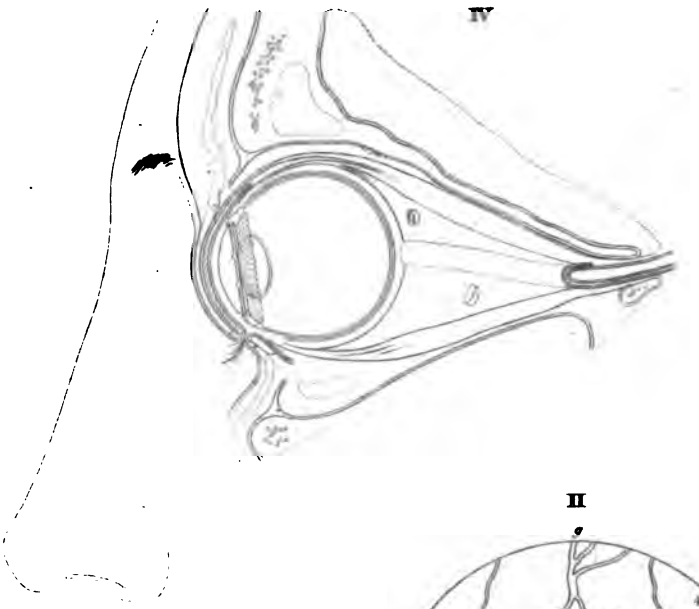
ANATOMY.

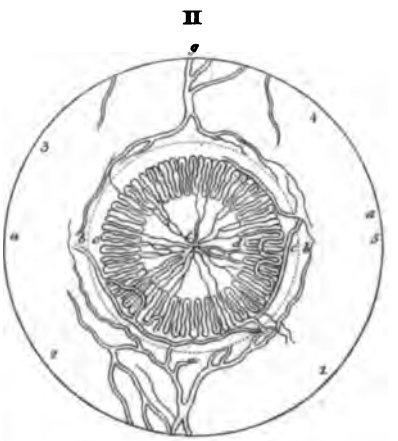
Organs of Sense.

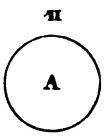
Eye.

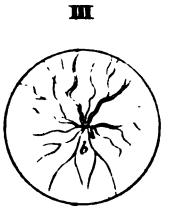
FIG. I.











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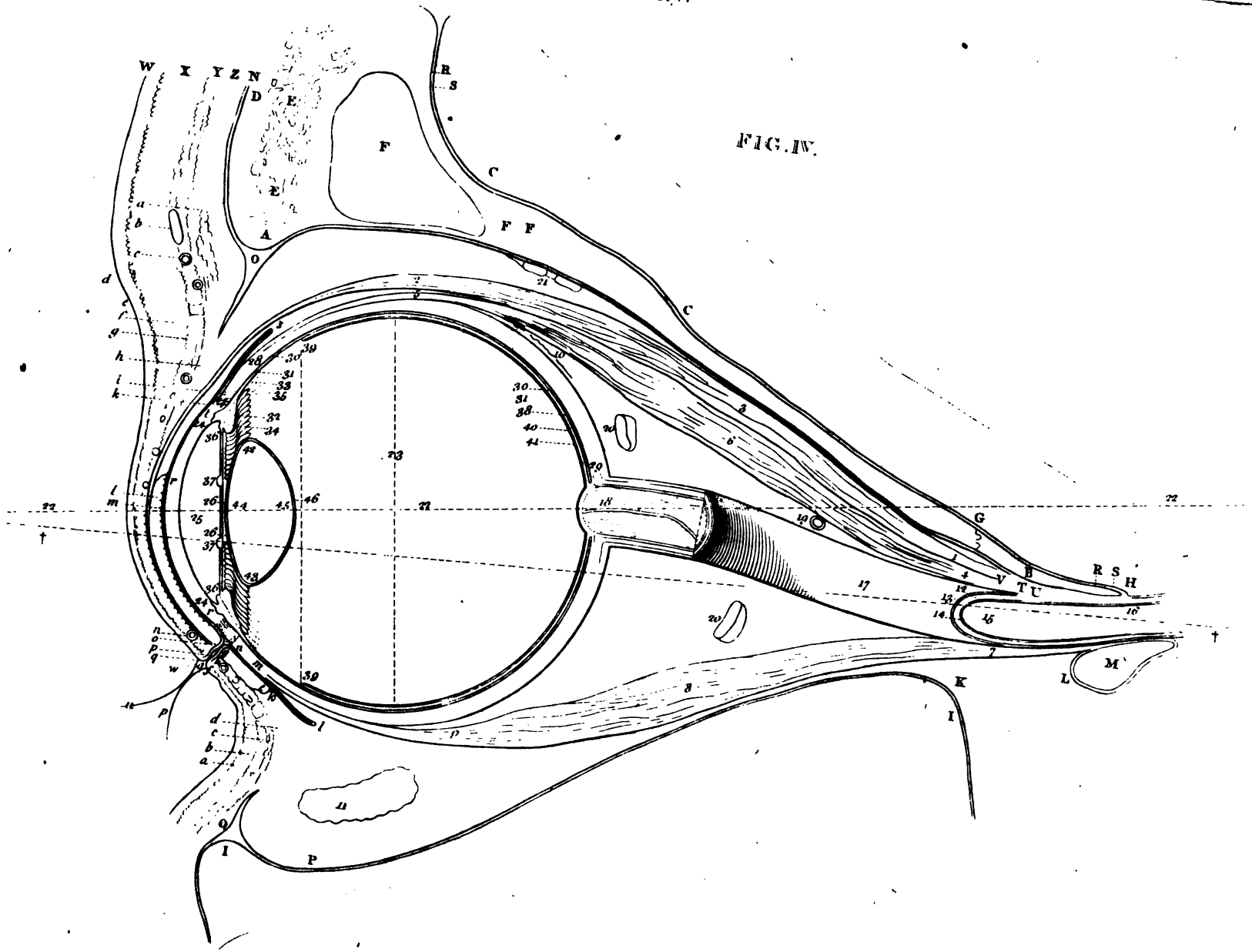
Milton fc.

FIG. IV.



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ANATOMY.

Organs of Sense.

Ear.

PLATE I.

Published as the Act directs, Sep.t 1.st 1808. by Longman, Hurst, Rees & Orme, Paternoster Row.

Milton sculp.

ANATOMY.

Organs of Sense.

Ear.

PLATE I.

FIG. 1.

Published as the Act directs. Sep.1st 1808. by Longman, Hurst, Rees & Orme, Paternoster Row.

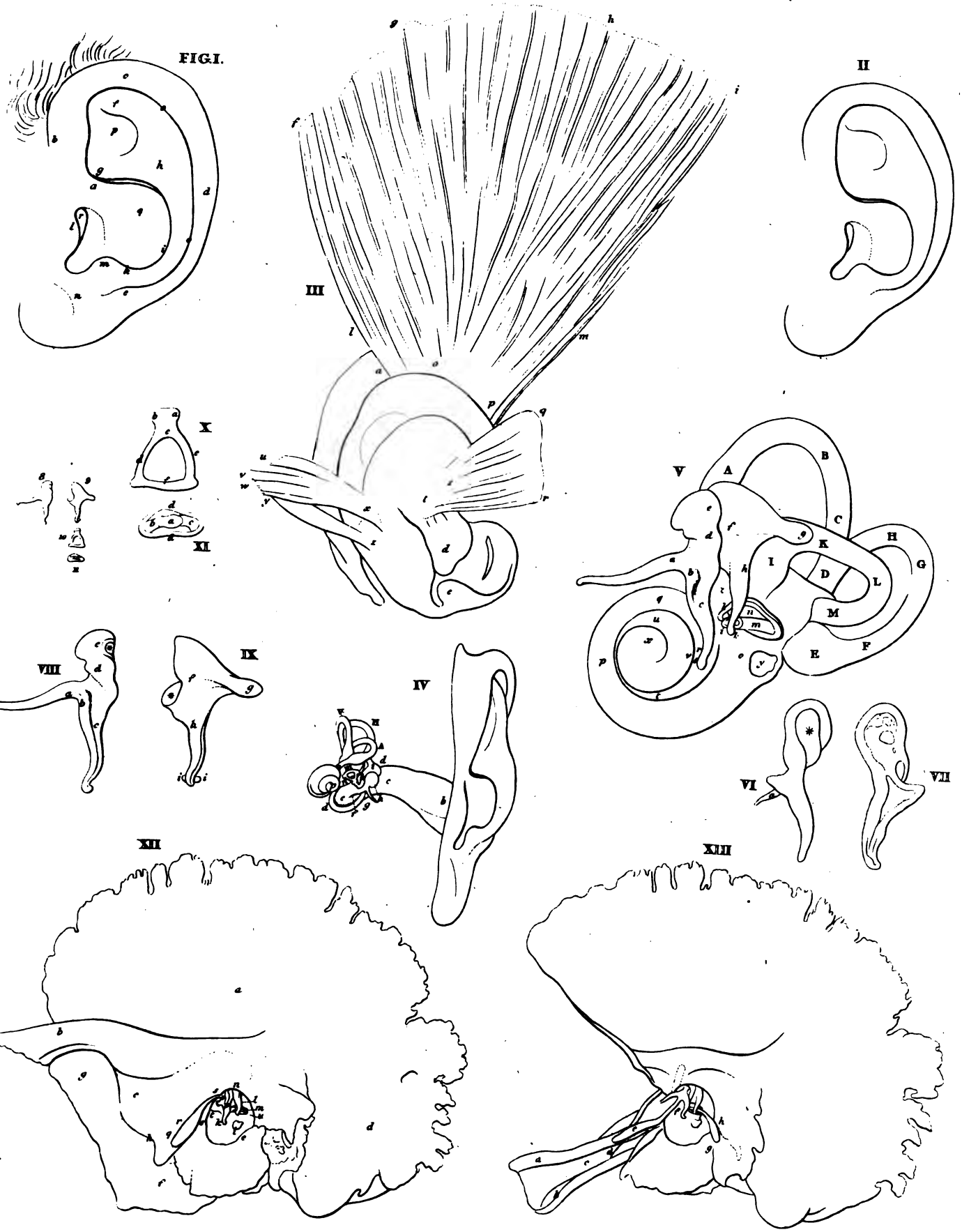
Milton sculp.

ANATOMY.

Organs of Sense.

Ear.

PLATE I.



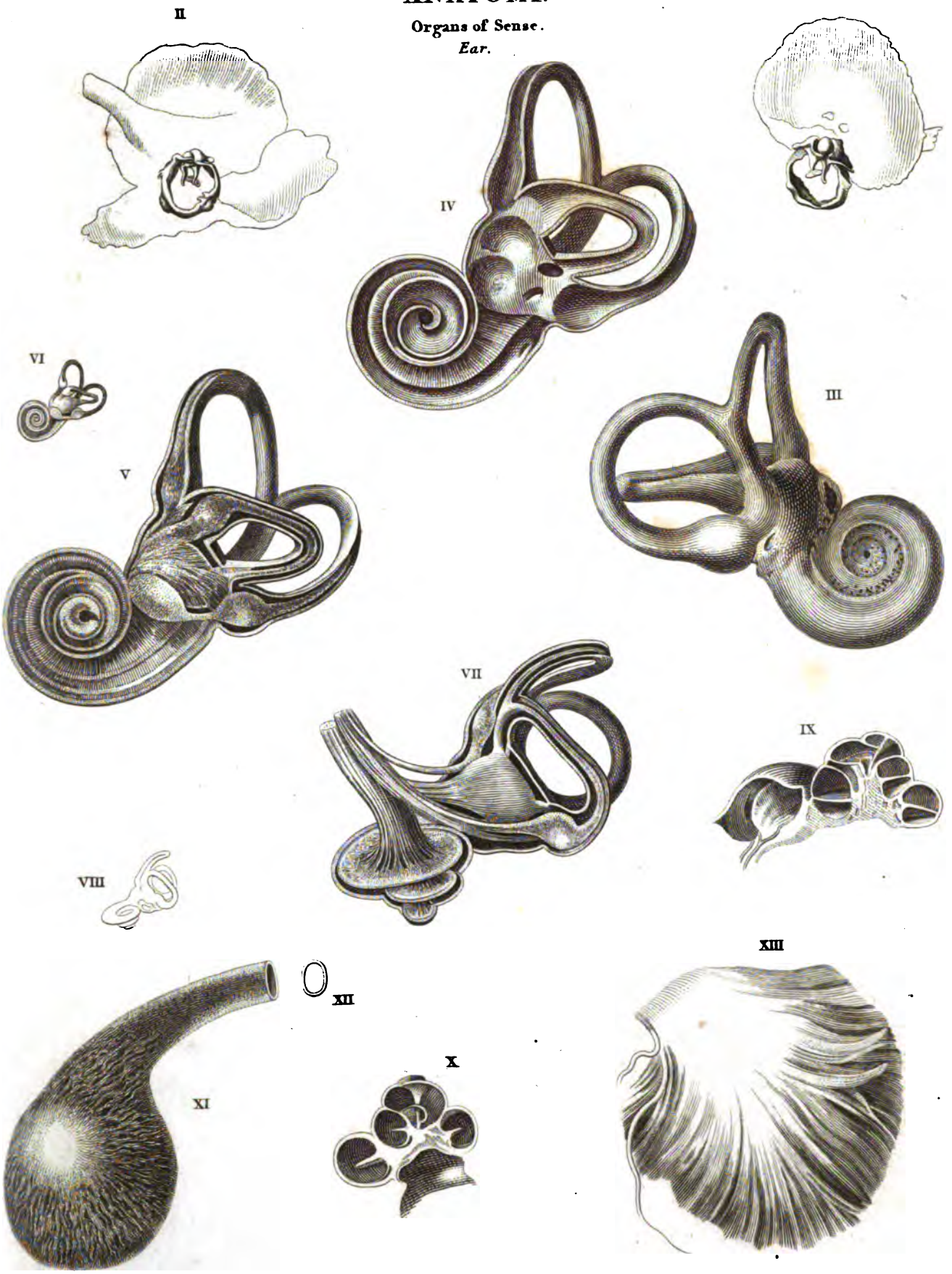
Published as the Act directs, Oct. 1st 1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

Milton sculp.

ANATOMY.

Organs of Sense.

Ear.



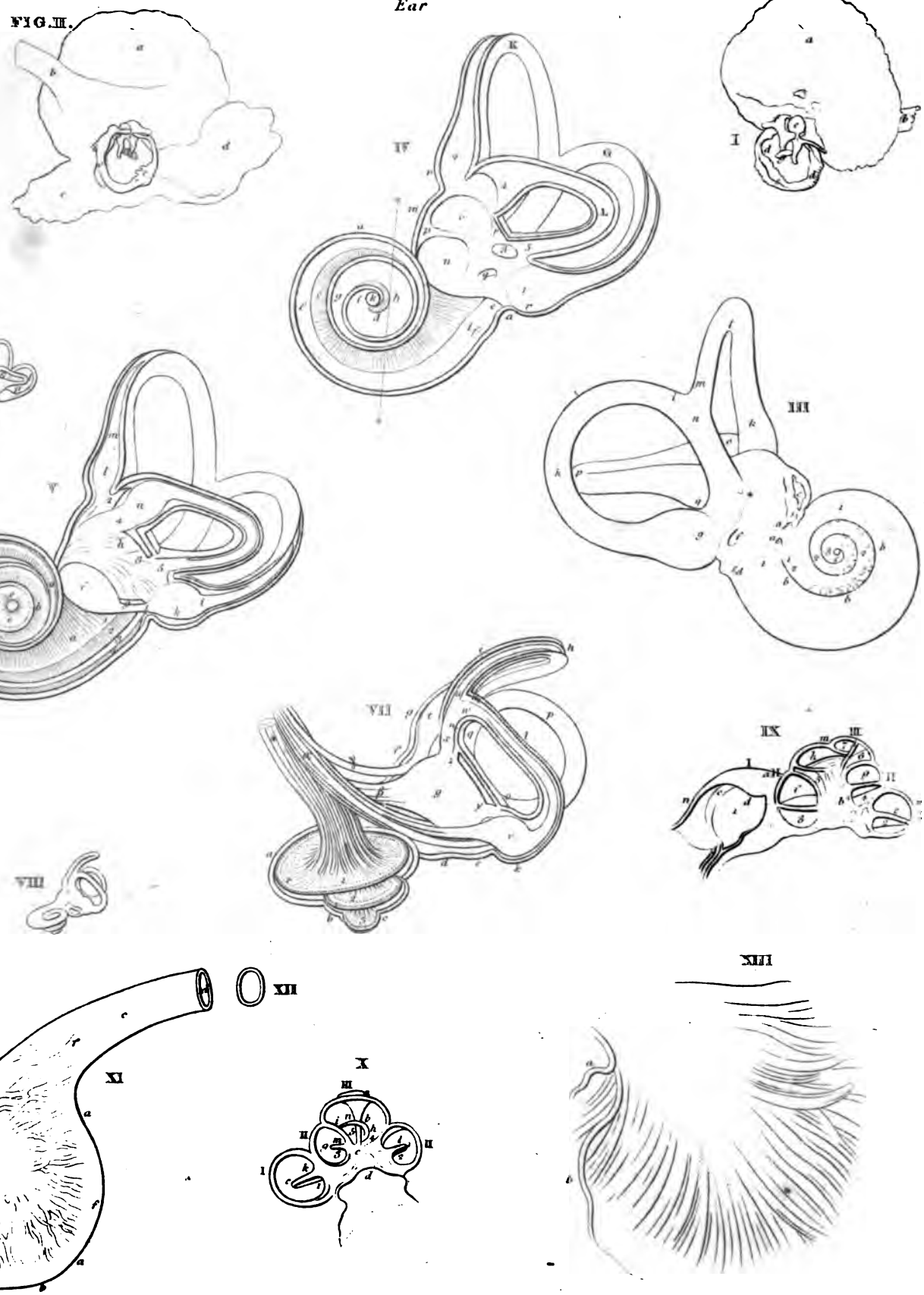
Published as the Act directs. Aug.1st 1808. by Longman. Hurst Rees & Orme Paternoster Row.

Milton sculp.

Organs of Sense.

Ear

FIG. III.



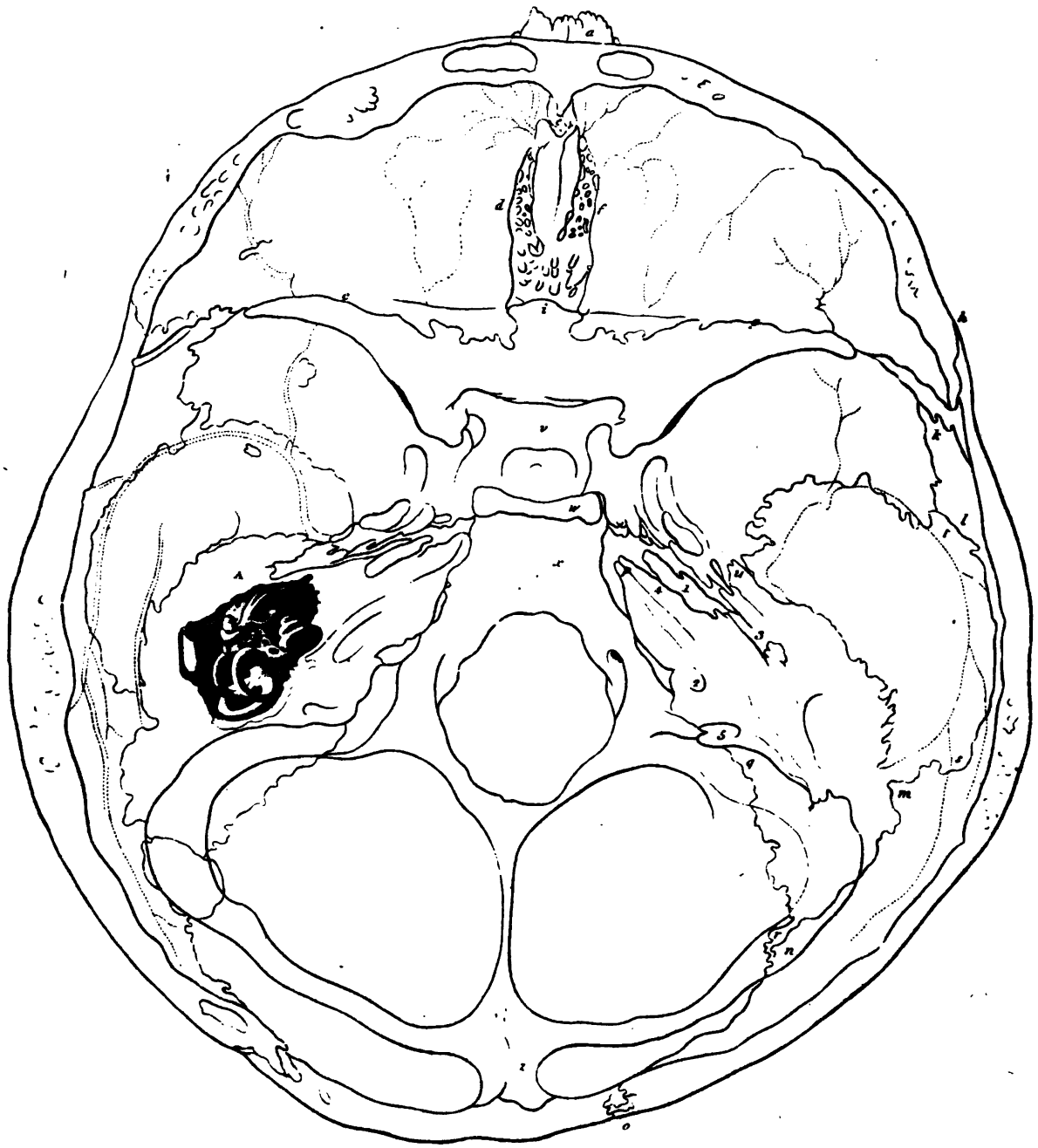
Published as the Act directs, Nov. 1st 1808, by Longman Hurst Rees & Orme, Paternoster Row.

ANATOMY.

Organs of Sense.

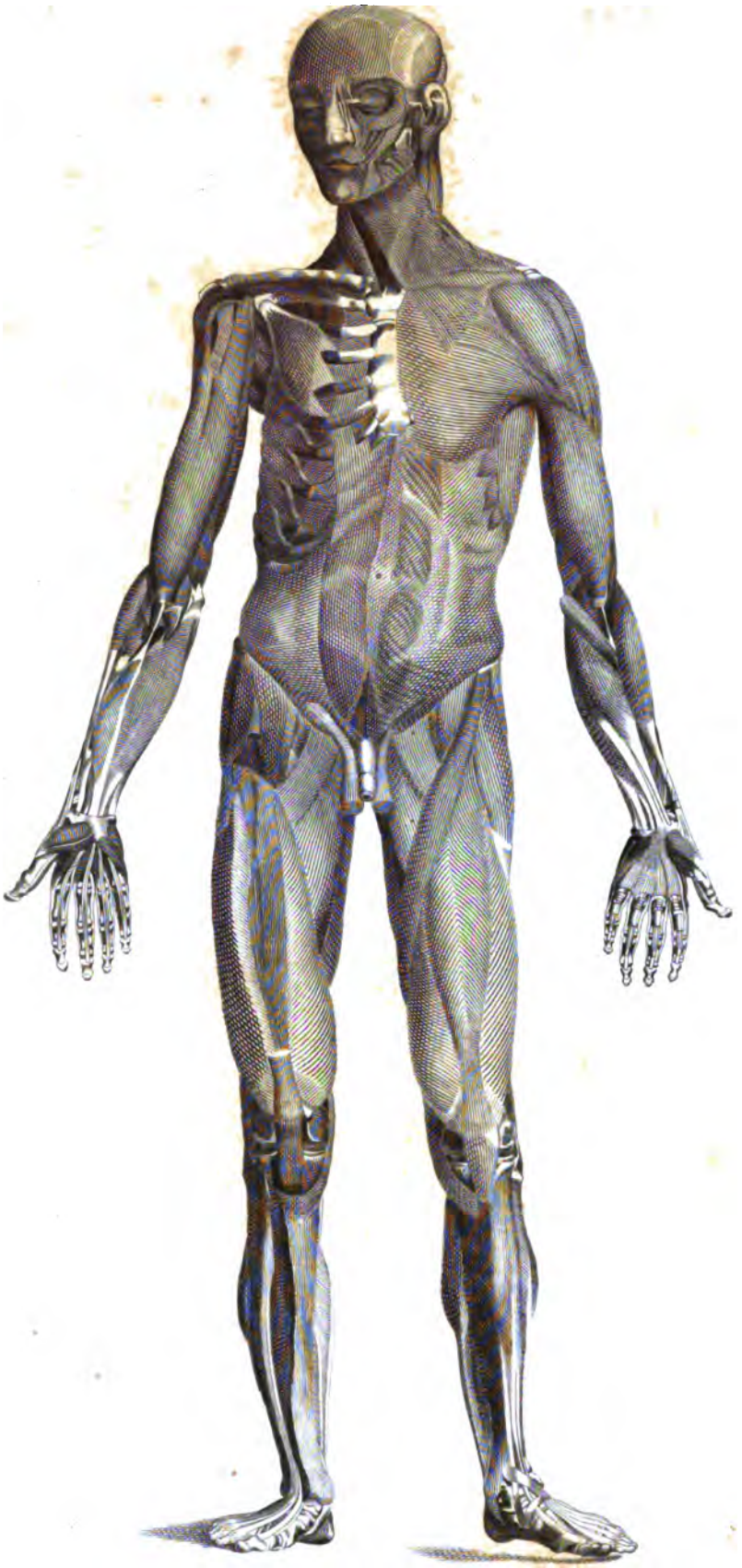
Ear.

PLATE III.

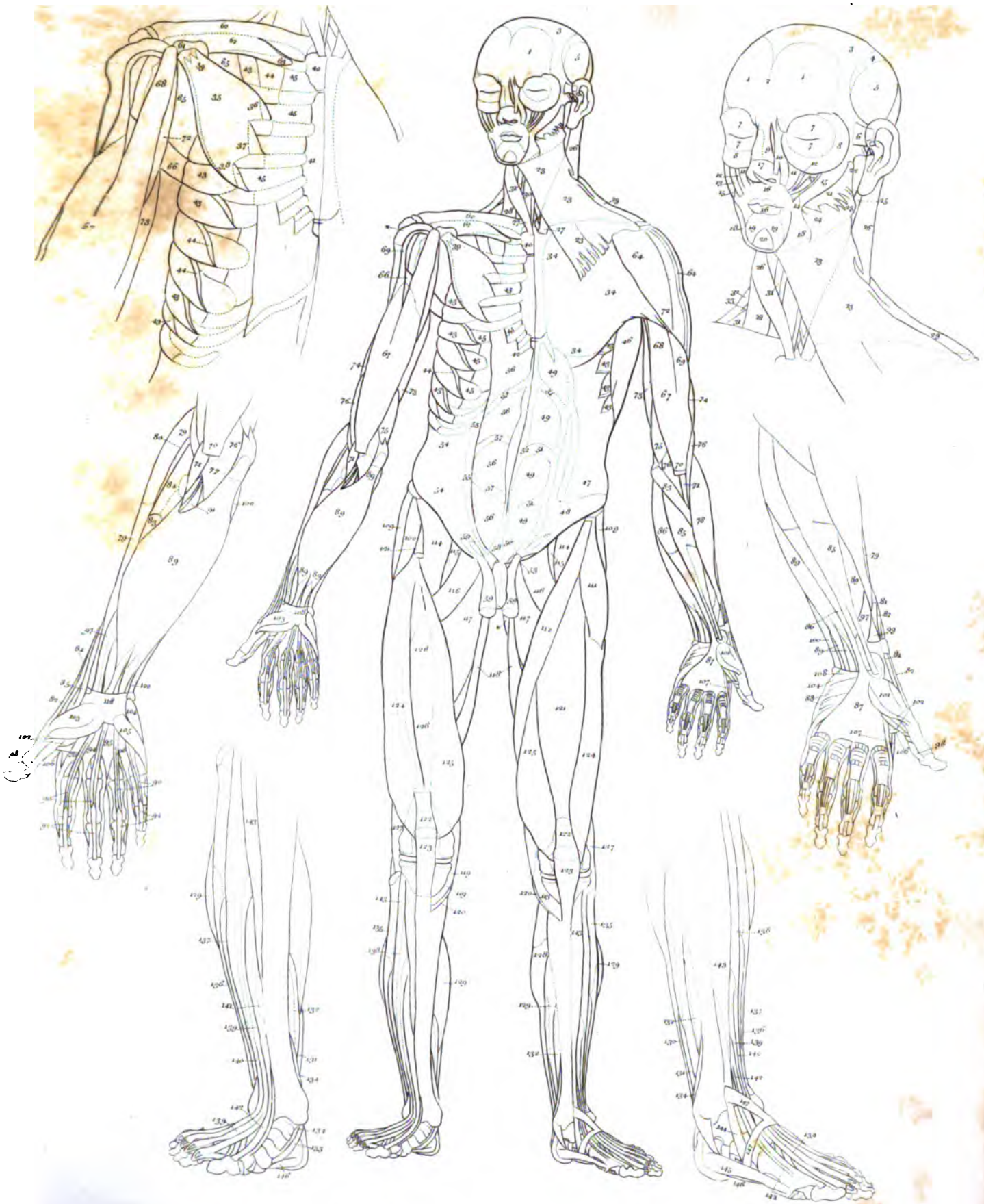


Published as the Act directs. Nov.1st 1808. by Longman. Hurst. Rees & Orme. Paternoster Row.

Milton Sculp.



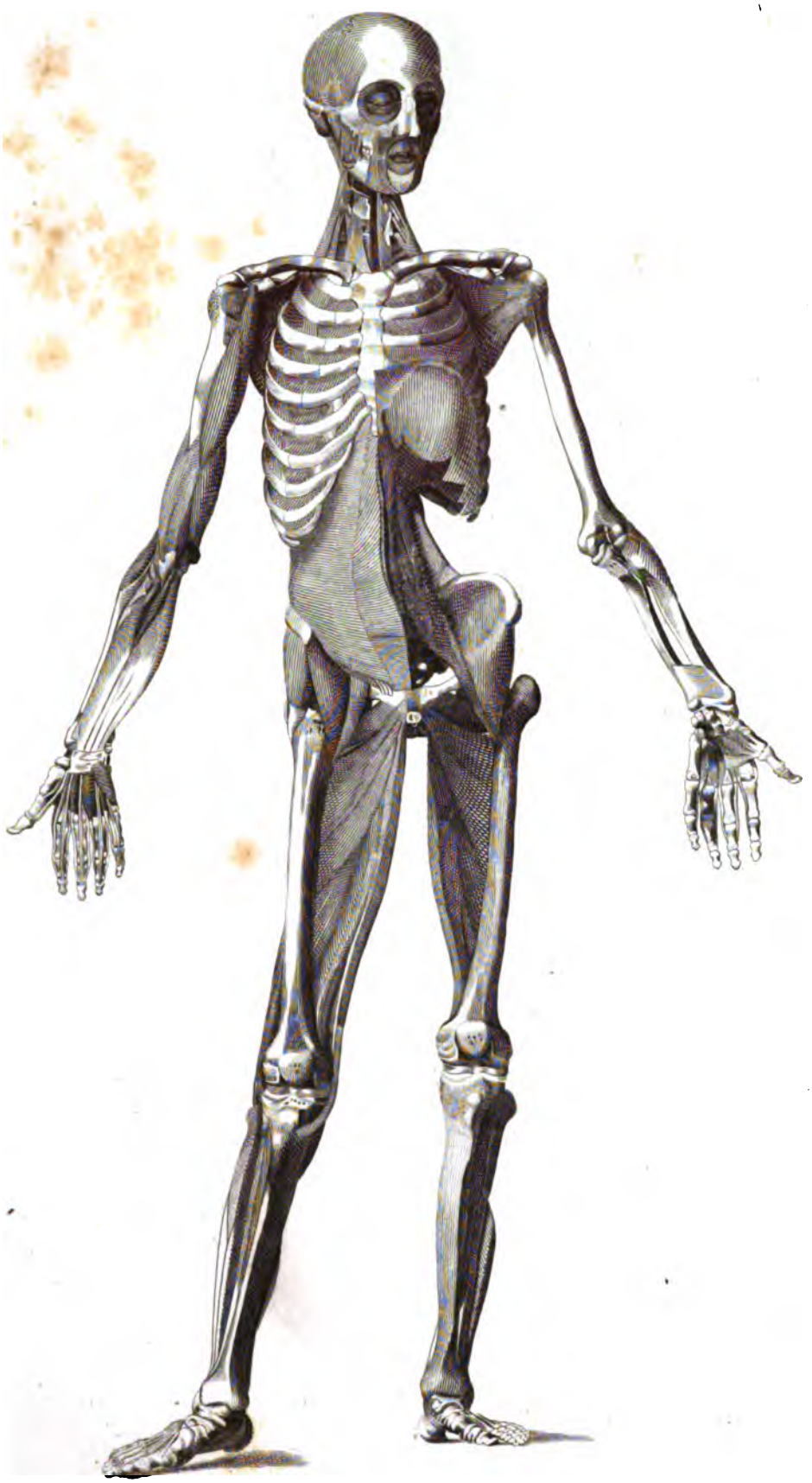
Published as the Act directs May 1. 1804 by Longman & Rees Paternoster Row.



Published as the Act directs May 1 1804 by Longman & Rees Paternoster Row

ANATOMY.

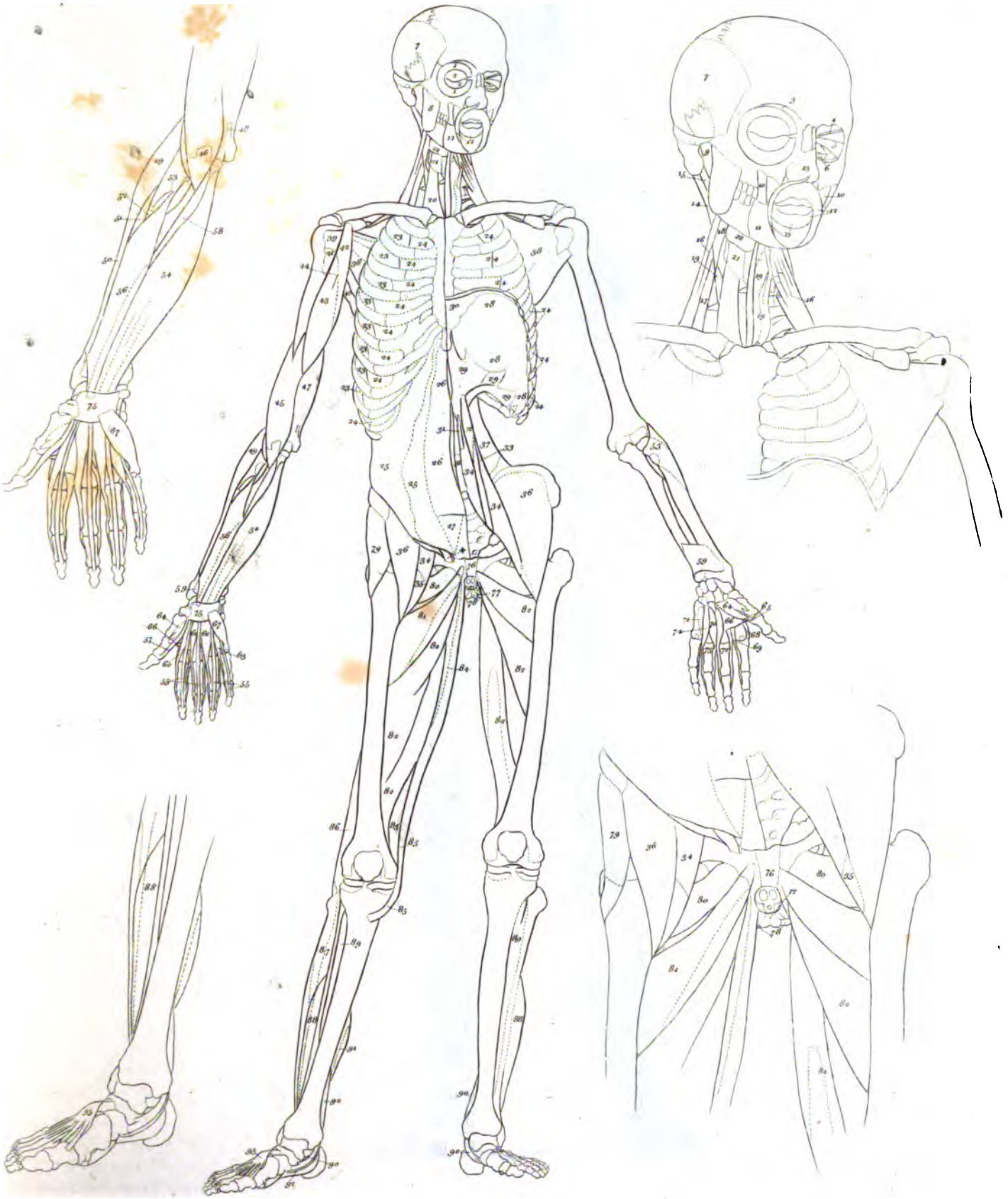
Myology



Published as the Act directs June 1.1803 by Longman & Rees Paternoster Row.

ANATOMY.

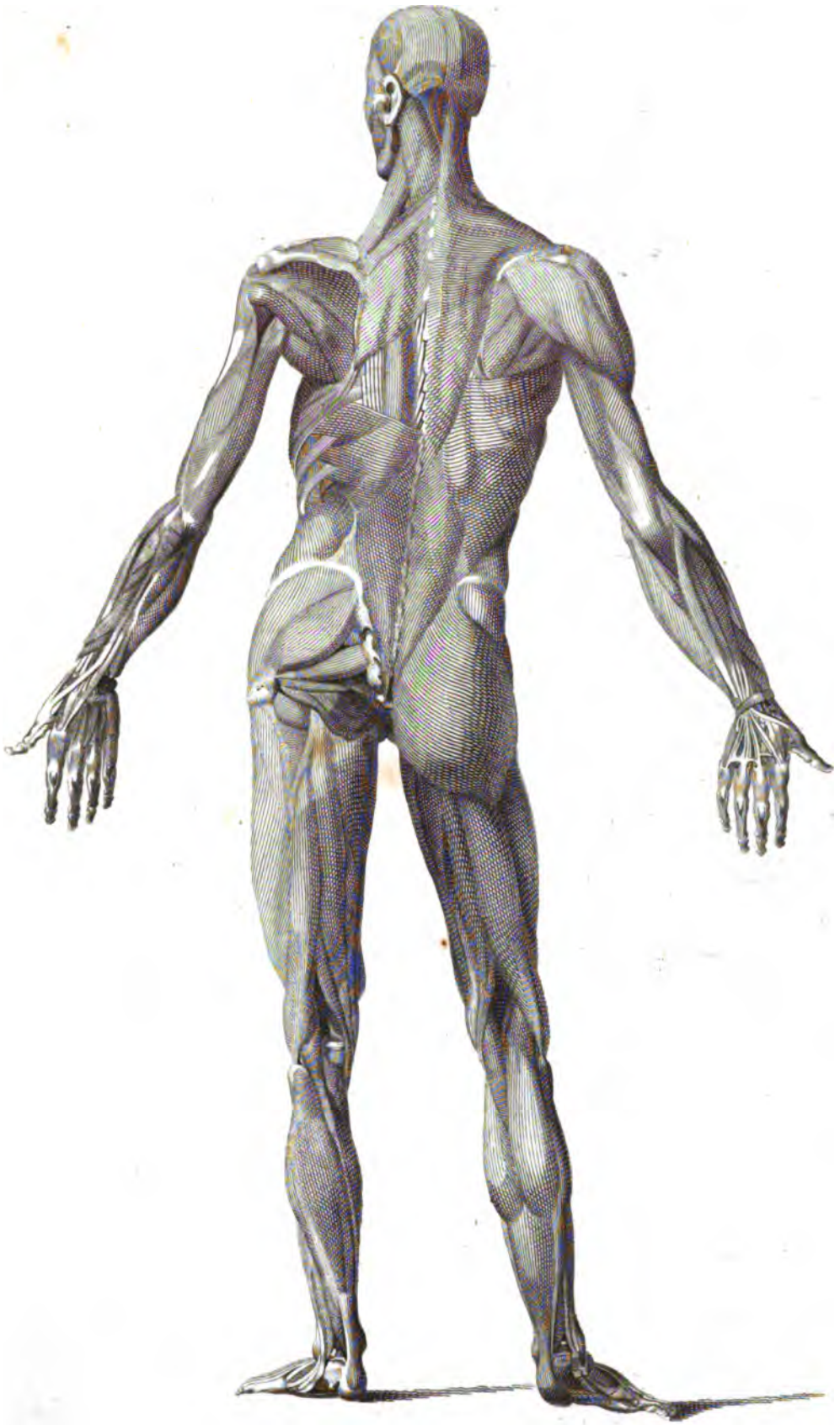
Myology.



Published as the Act directs June 1.1807, by Longman & Rees Paternoster Row.

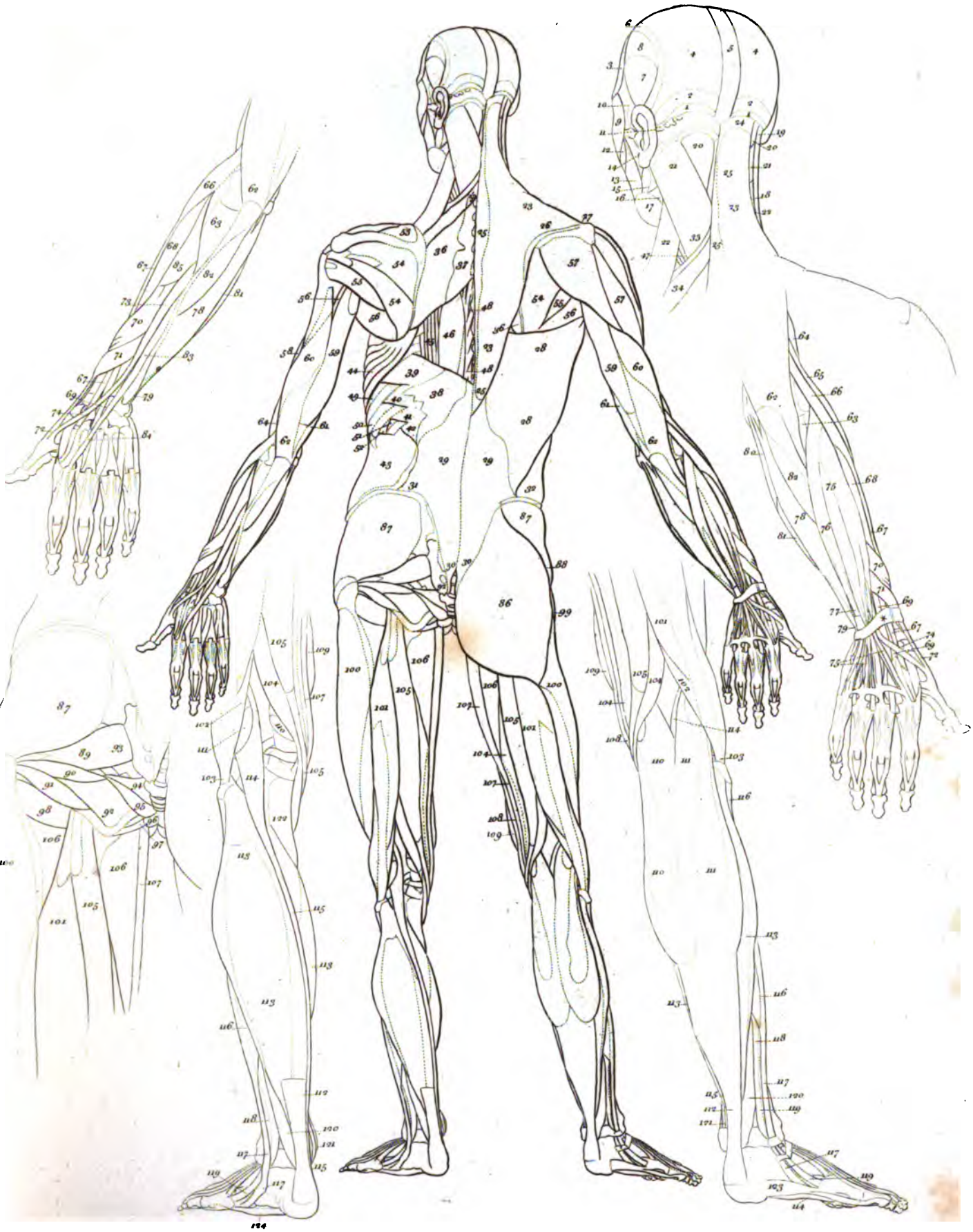
ANATOMY.

Myology.



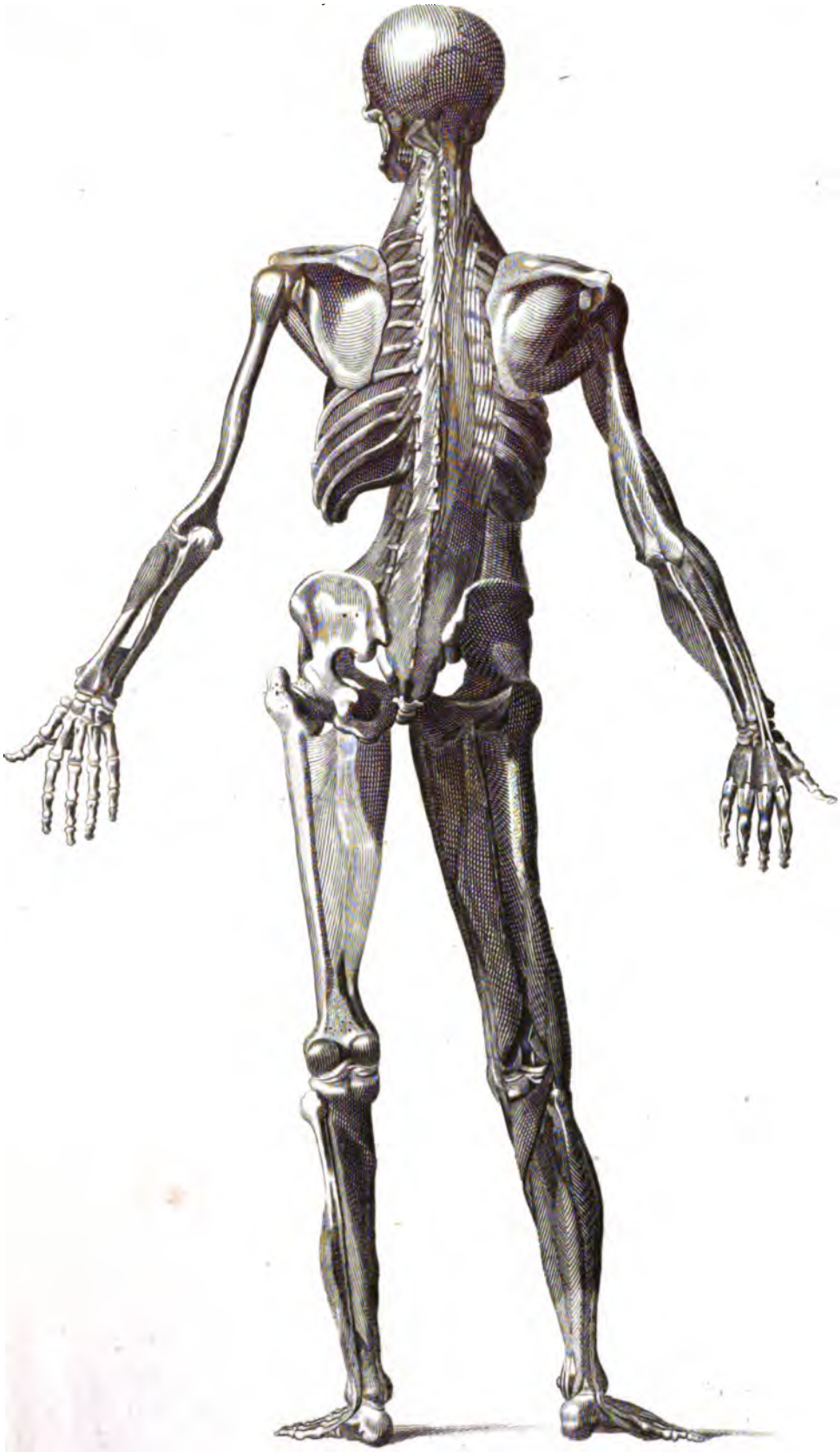
Published as the Act directs, Sep.1.1803. by Longman & Rees Paternoster Row.

Myology.



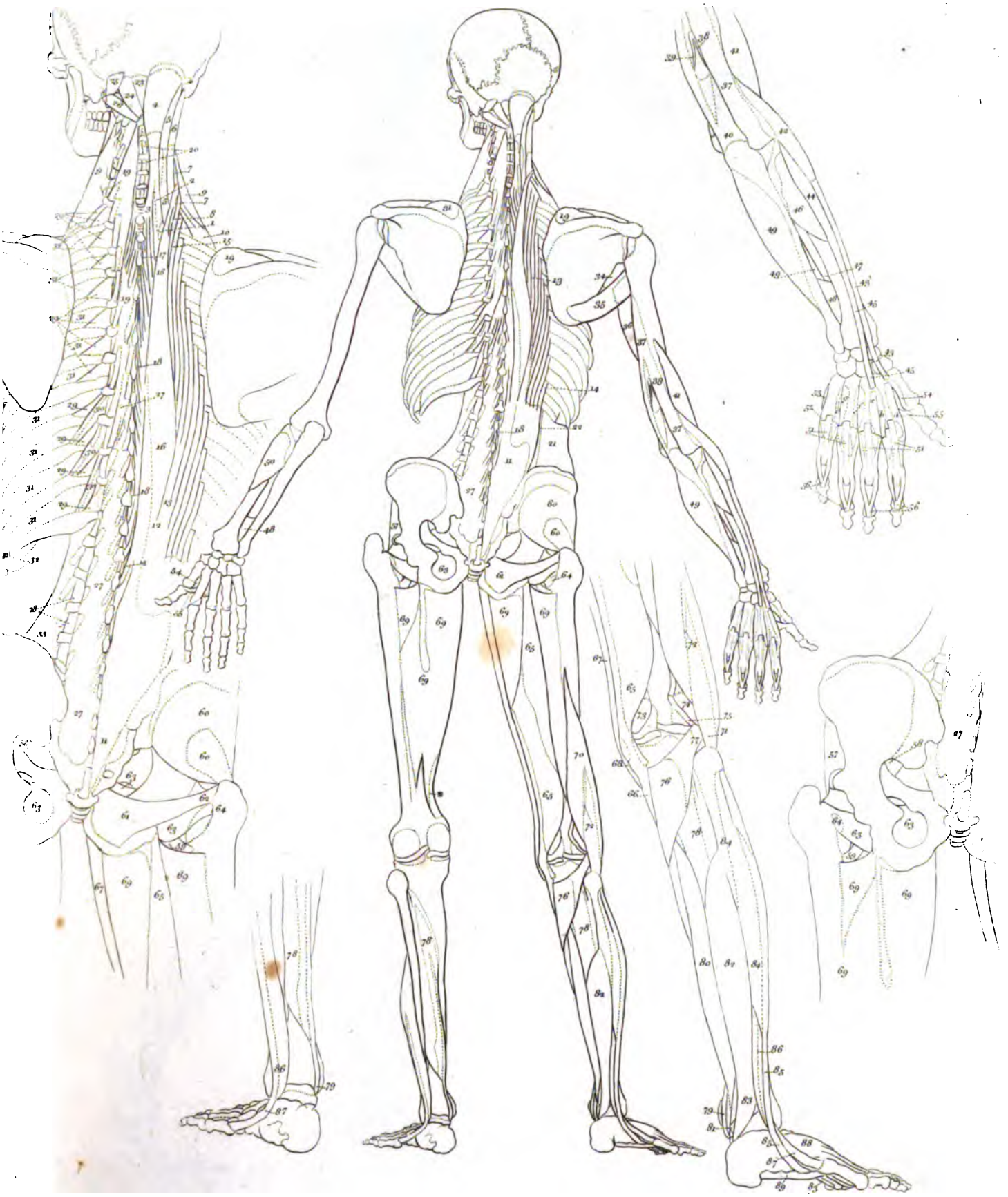
Published as the Act directs Sep. 1st 1803, by Longman & Rees Paternoster Row.

Milton fecit



Published as the Act directs. March 1803. by Longman & Rees Paternoster Row.

Myology.

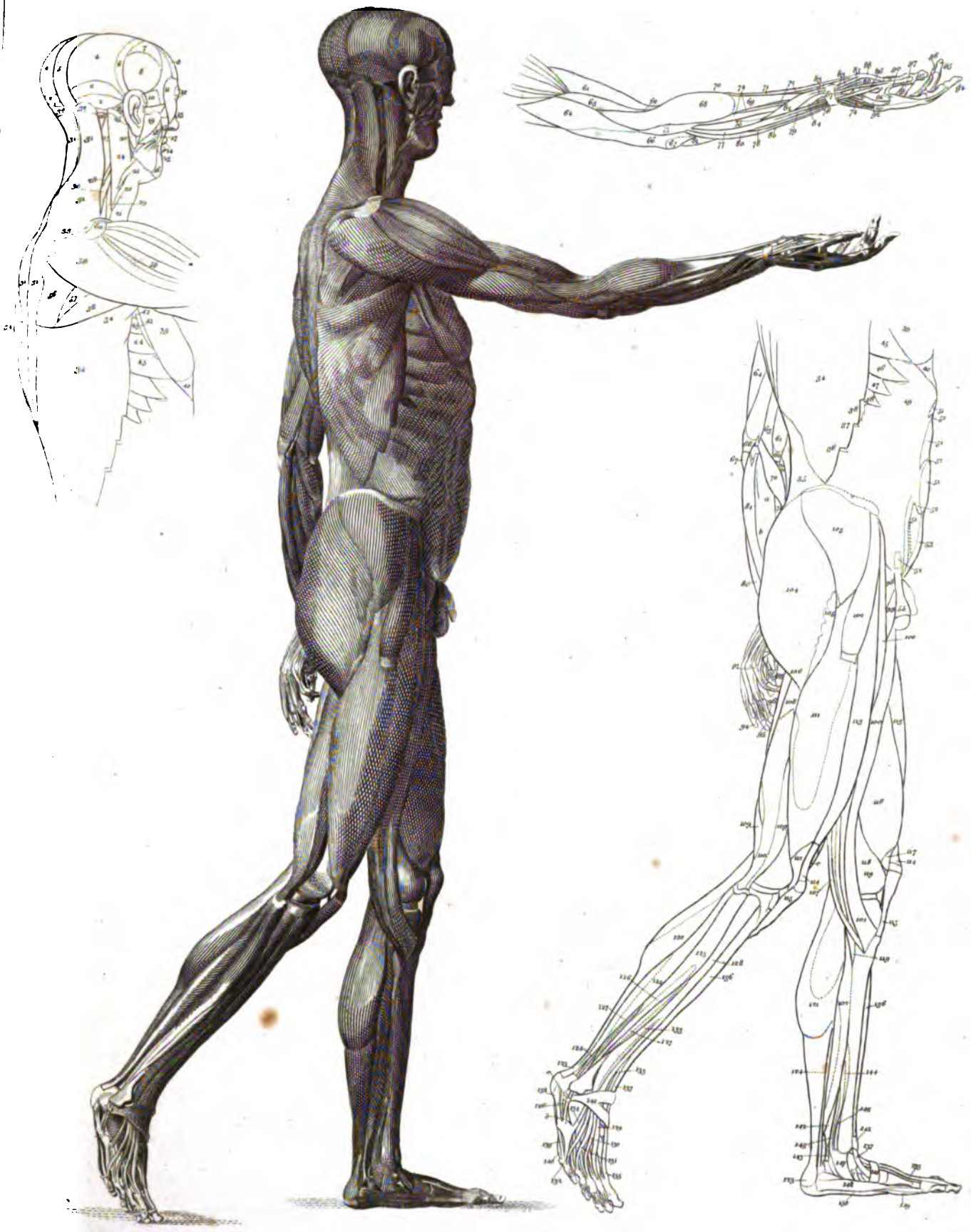


Published as the Act directs, March 1. 1803, by Longman & Rees, Paternoster Row.

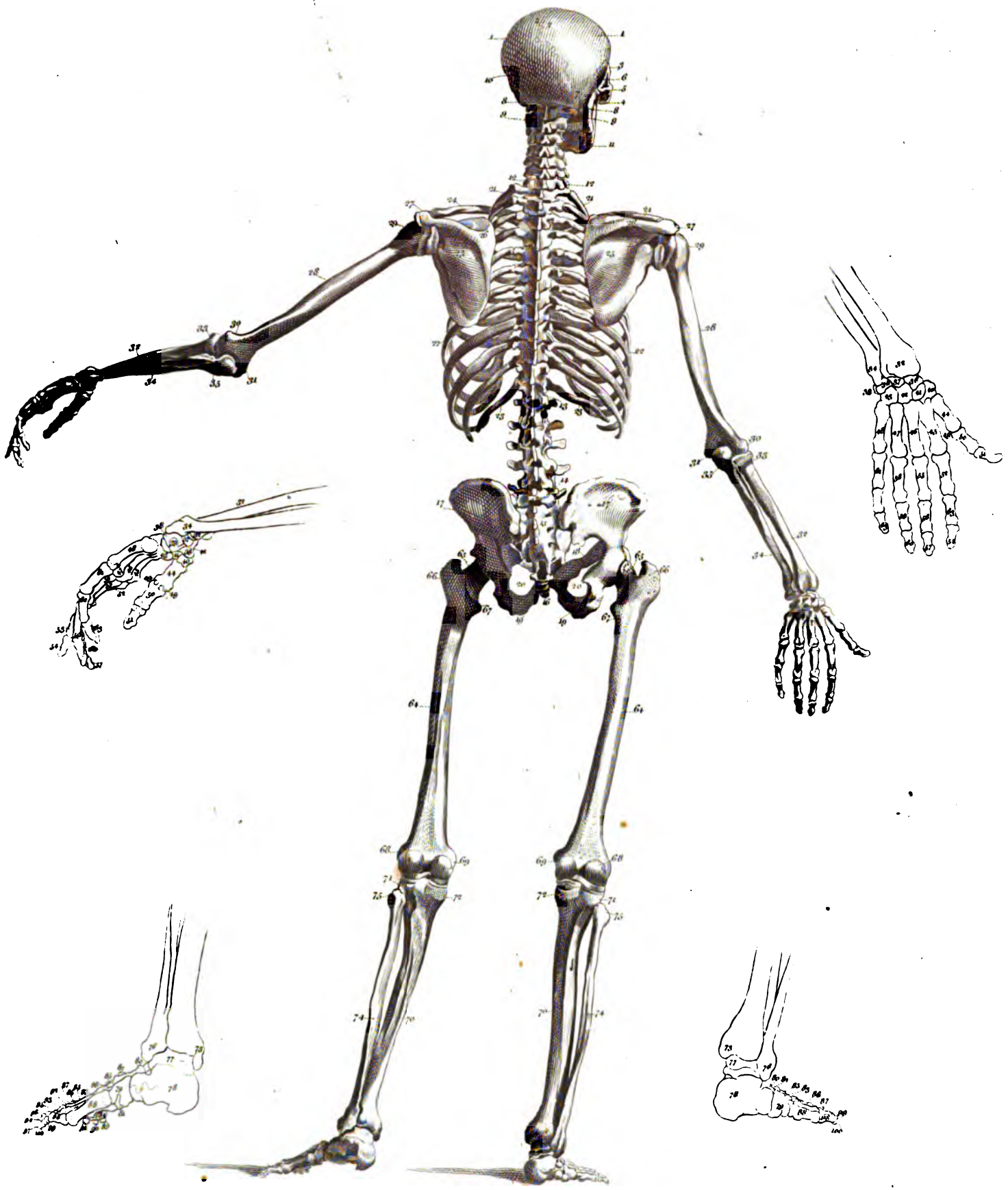
ANATOMY

Myology.

PLATE XVI



Published as the Act directs Nov. 1st 1803 by Longman Hurst, Rees & Orme, Paternoster Row.

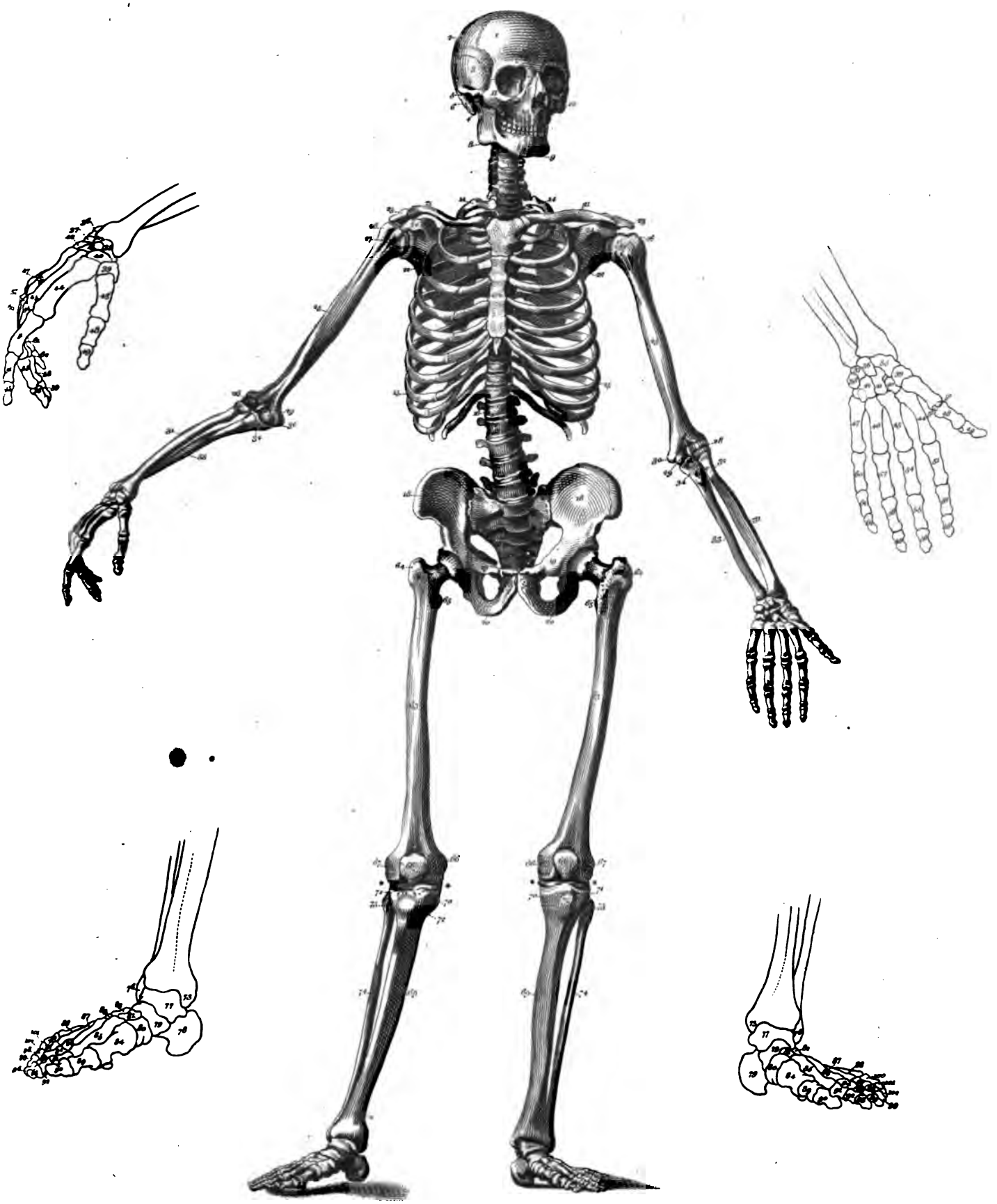


Published as the Act directs Dec.r 1805 by Longman Hurst Rees & Orme . Paternoster Row.

ANATOMY.

Skeleton.

Osteology.



Published as the Act directs. Jan.1.1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

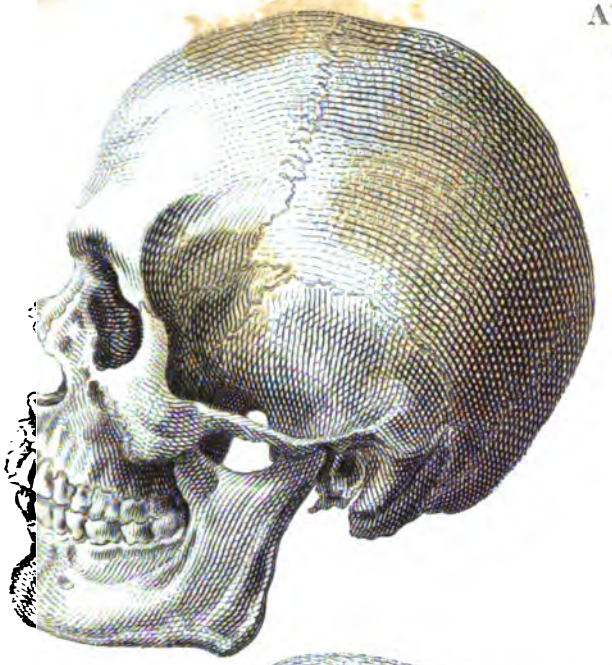
ANATOMY

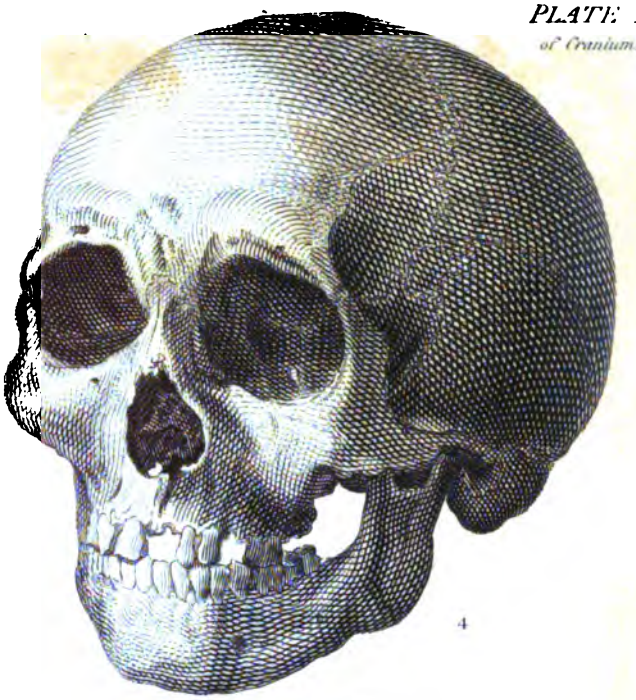
Osteology.

CRANIUM.

PLATE I

of Cranium.





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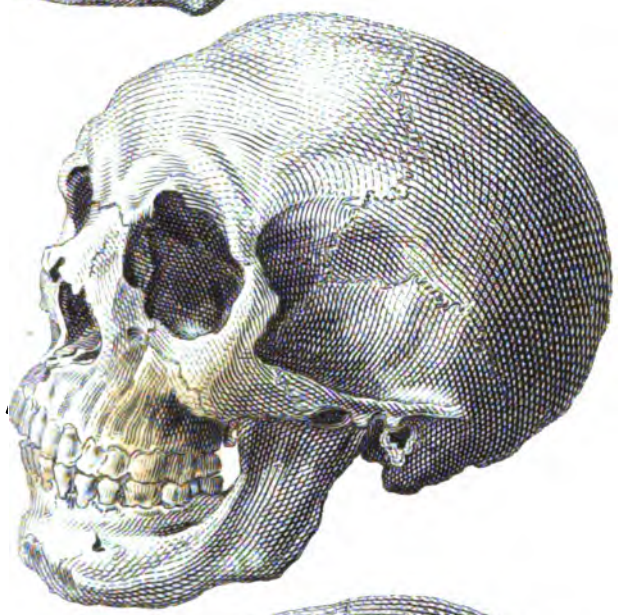

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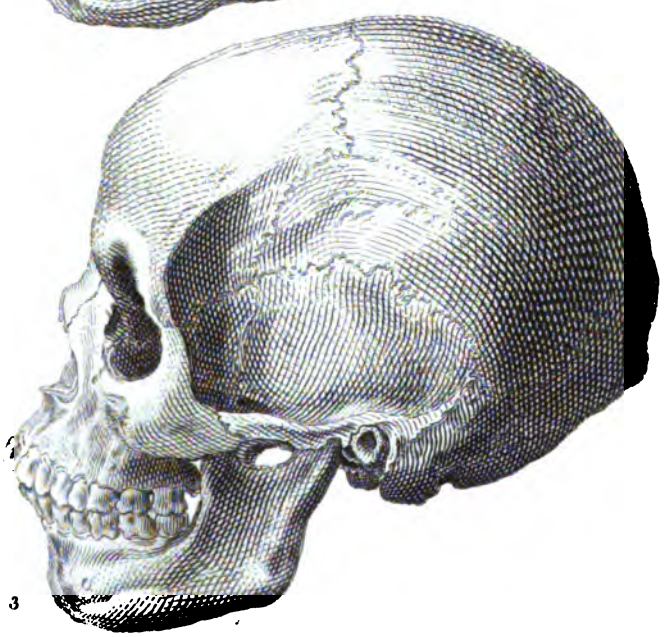

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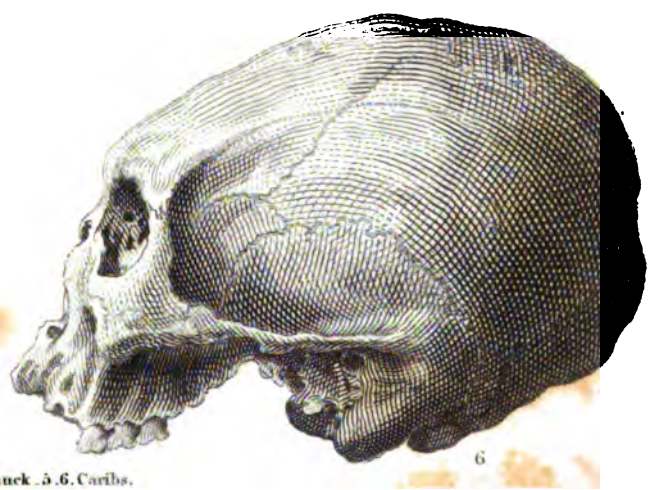

6

Georgian *Female* 2.Turk 3.Negro 4.Calmuck 5.6.Caribs.

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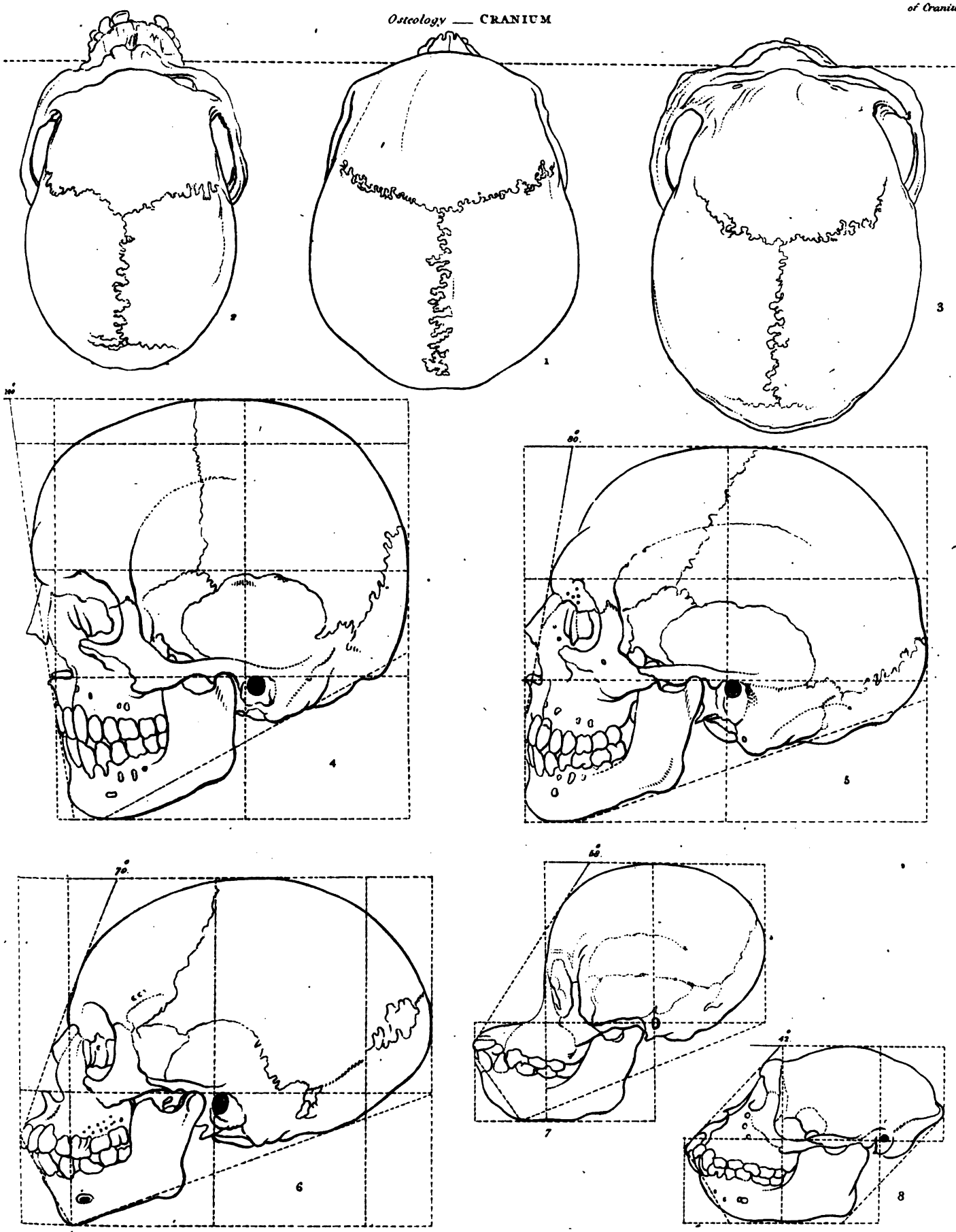
ANATOMY.

Osteology — CRANIUM

PLATE II
of Cranium.



1.Georgian _ 2.Negro _ 3.Calmuck _ 4.Antique _ 5 European _ 6.Negro _ 7.Orang Outang _ 8.Monkey.

Published as the Act directs. Oct 1st 1807, by Longman Hurst, Rees & Orme Paternoster Row.

Fig.1.

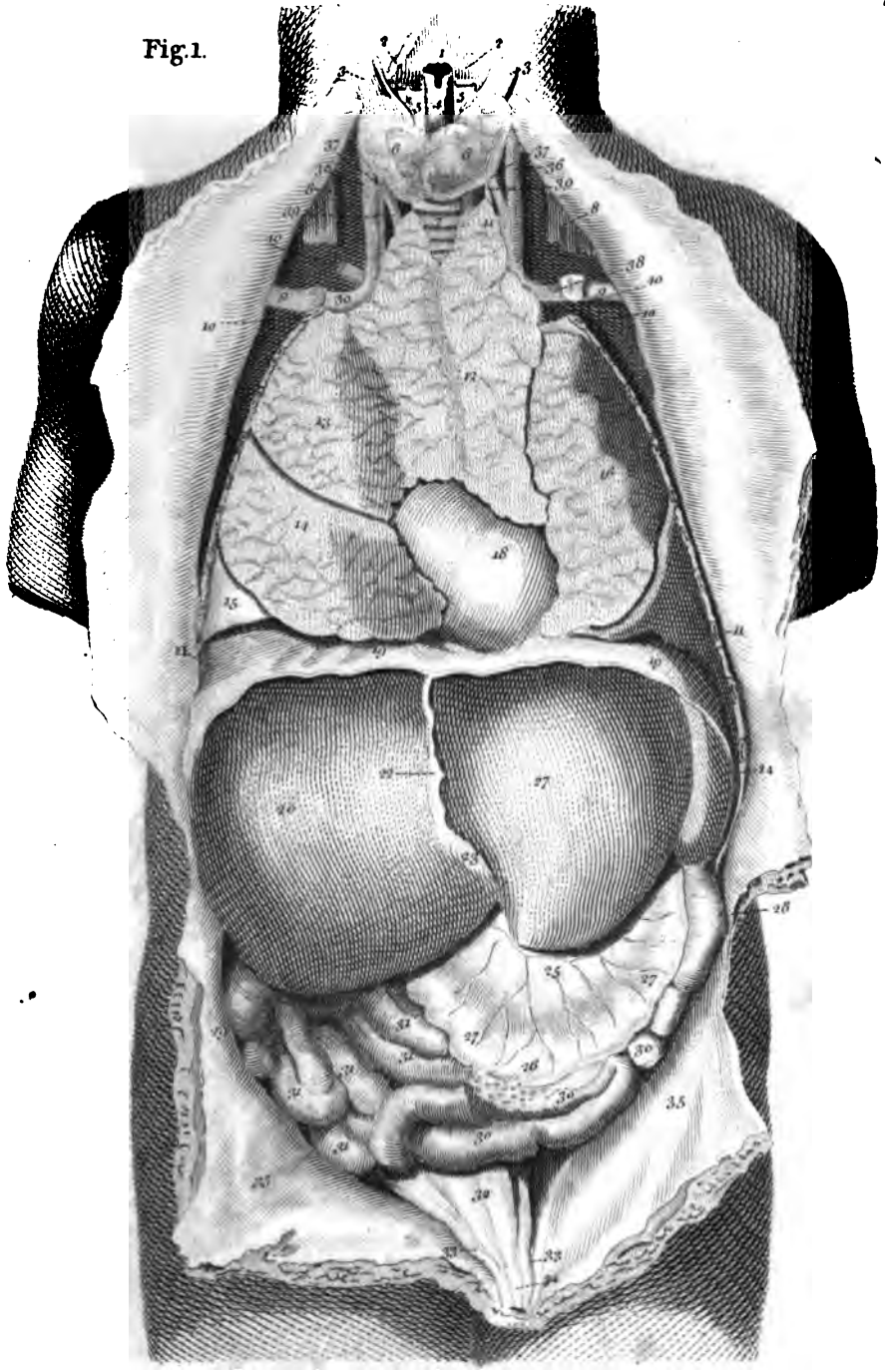
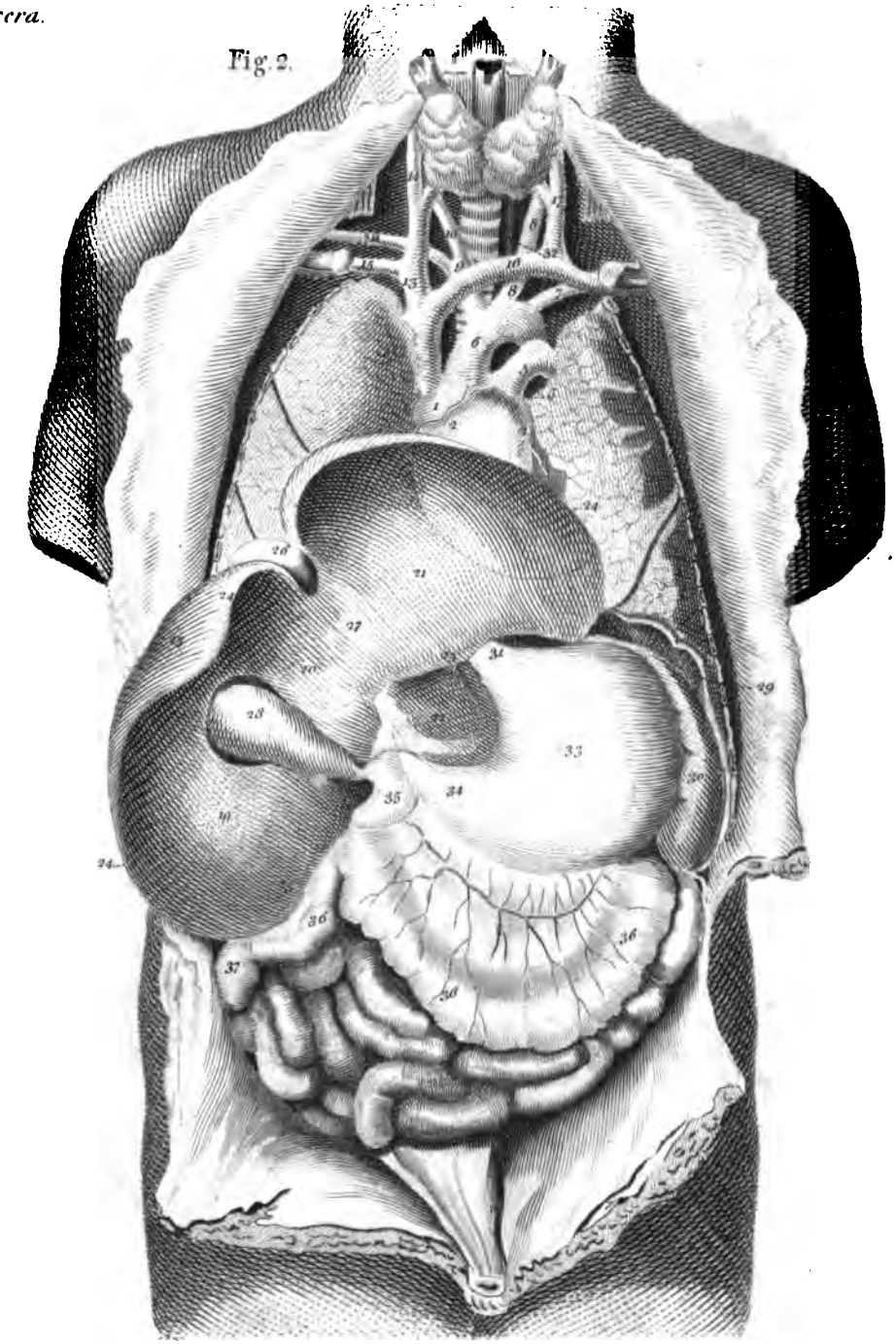


Fig.2.



Published as the Act directs June 1. 1814. by Longman Hurst. Rees. Orme & Brown. Paternoster Row.

Milton sculp.

Viscera.

Fig.1.

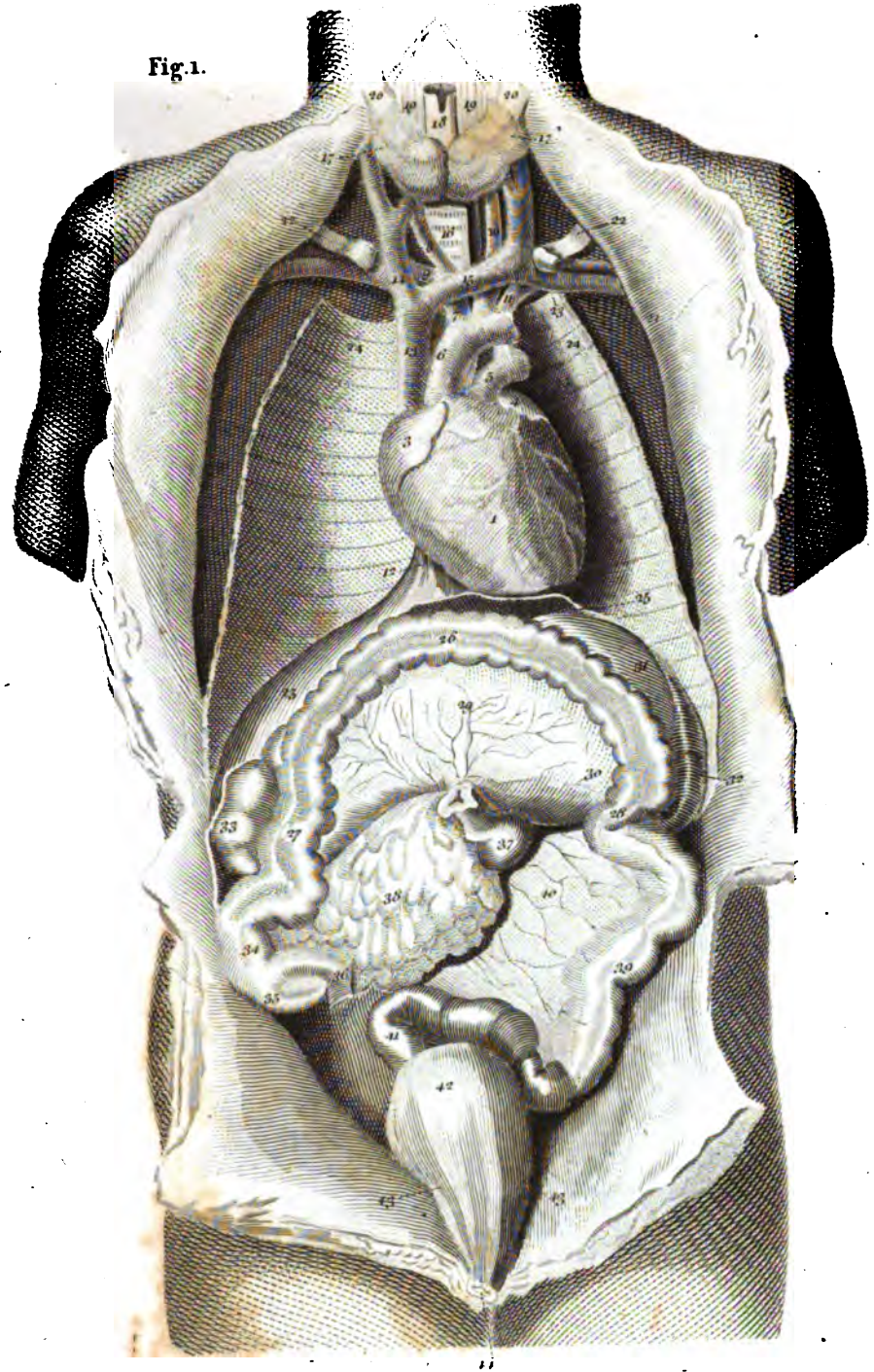
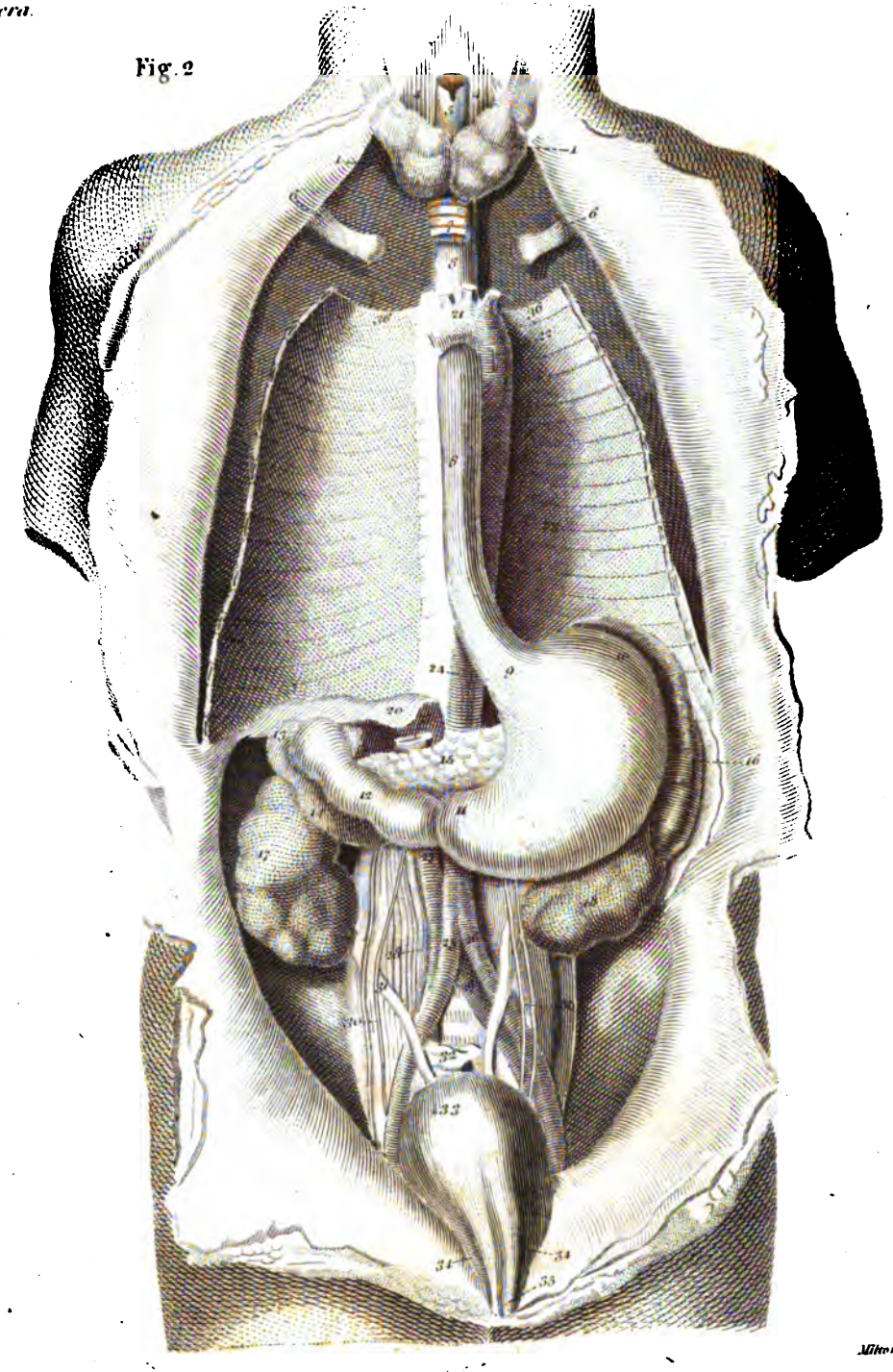


Fig.2



Milton sculp.

Published as the Act directs June 1 1811 by Longman Hurst Rees Orme & Brown Paternoster Row.

Fig. 1.

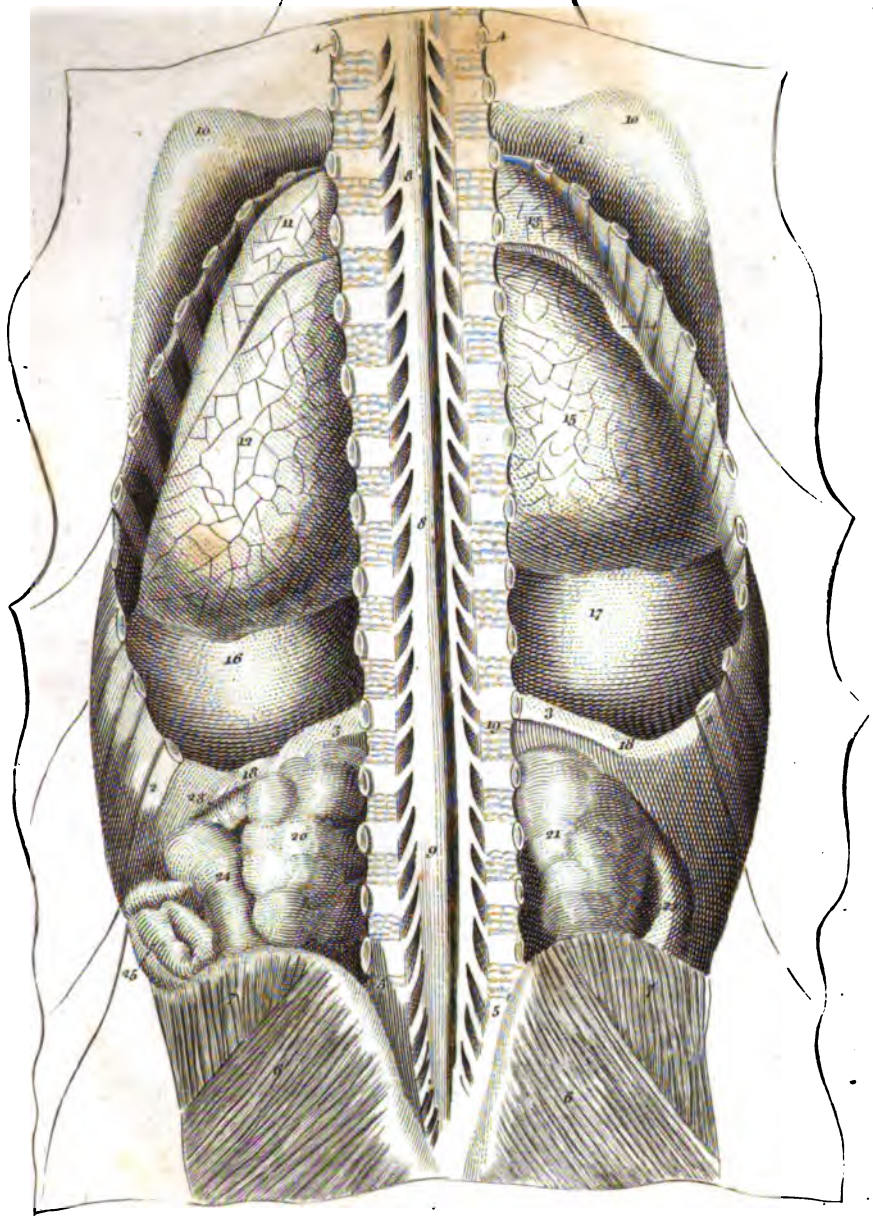
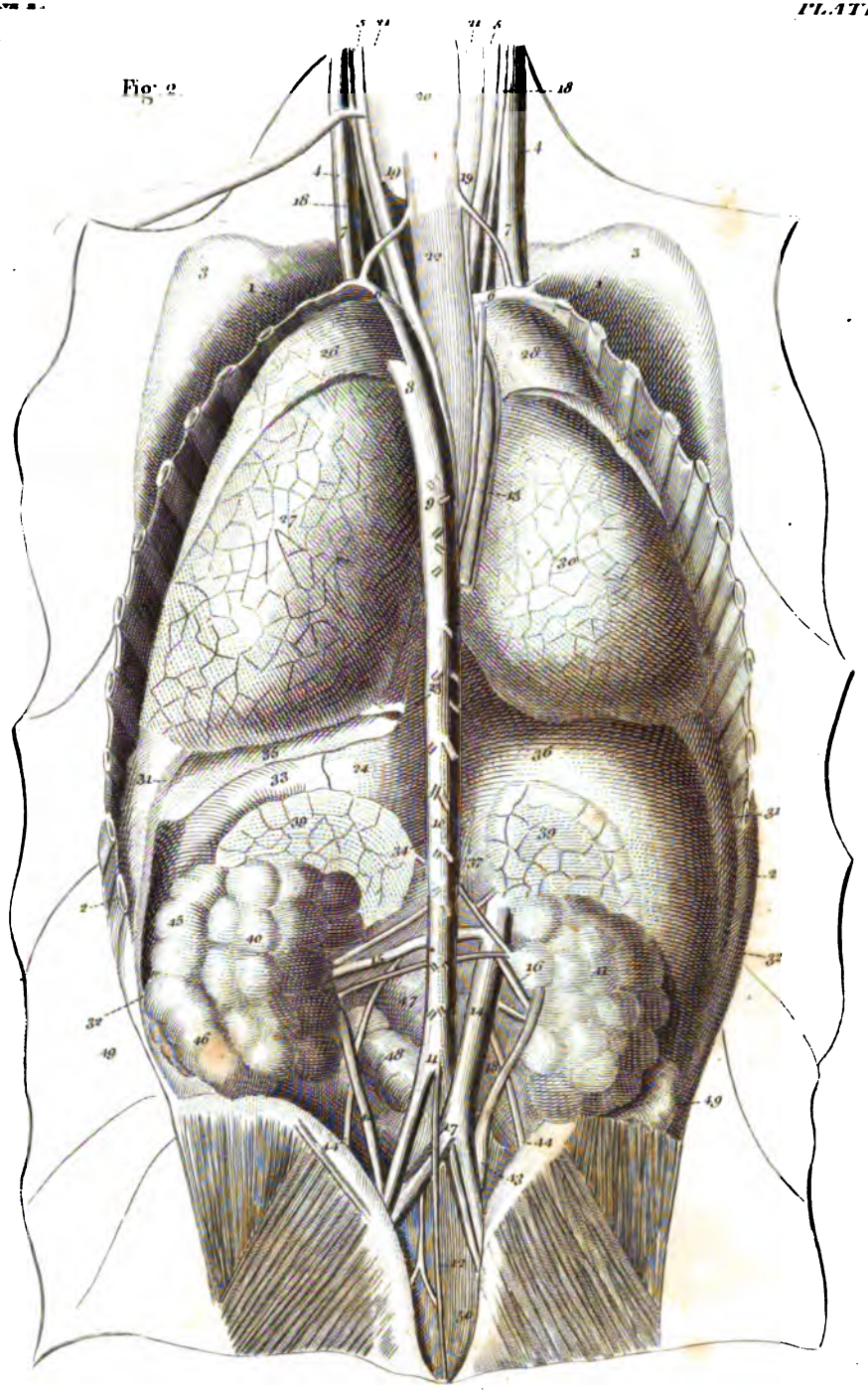


Fig. 2.

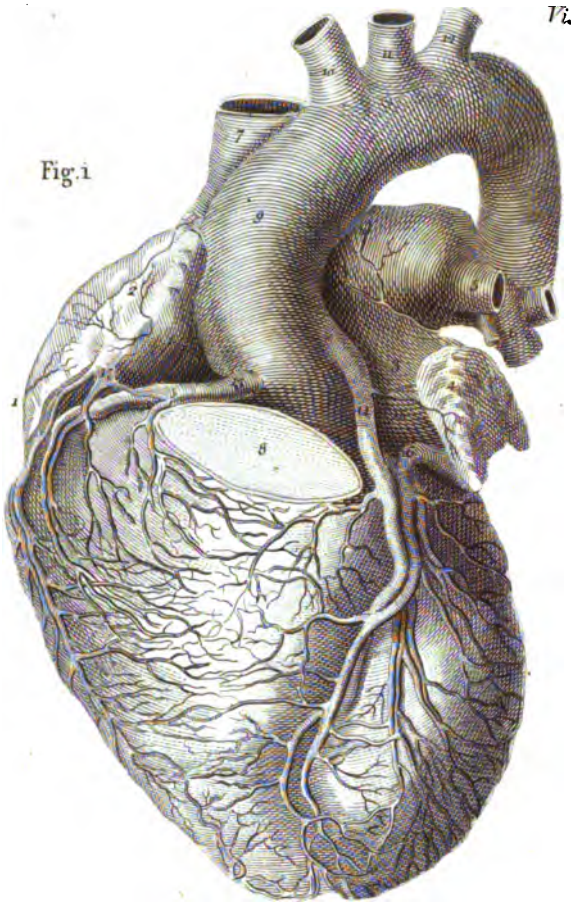


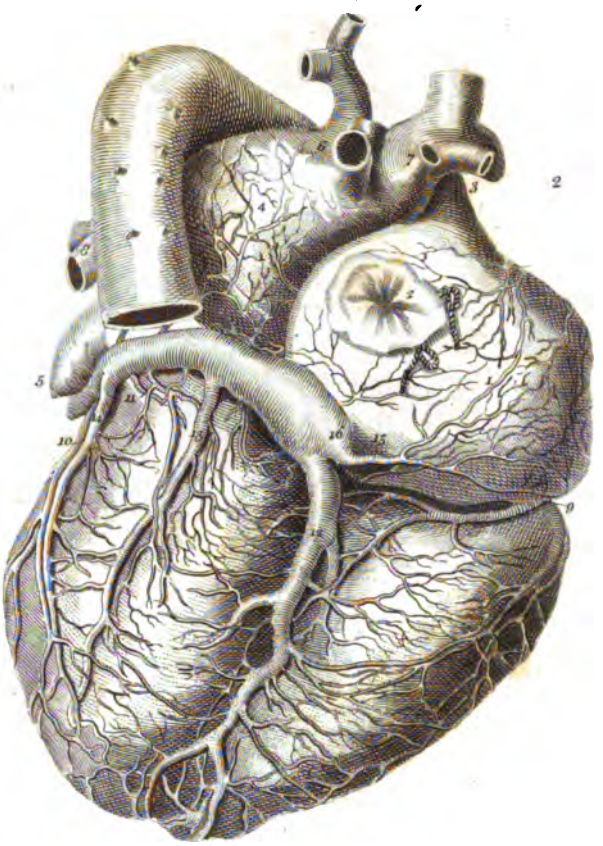
Published as the Act directs, July 1. 1814. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

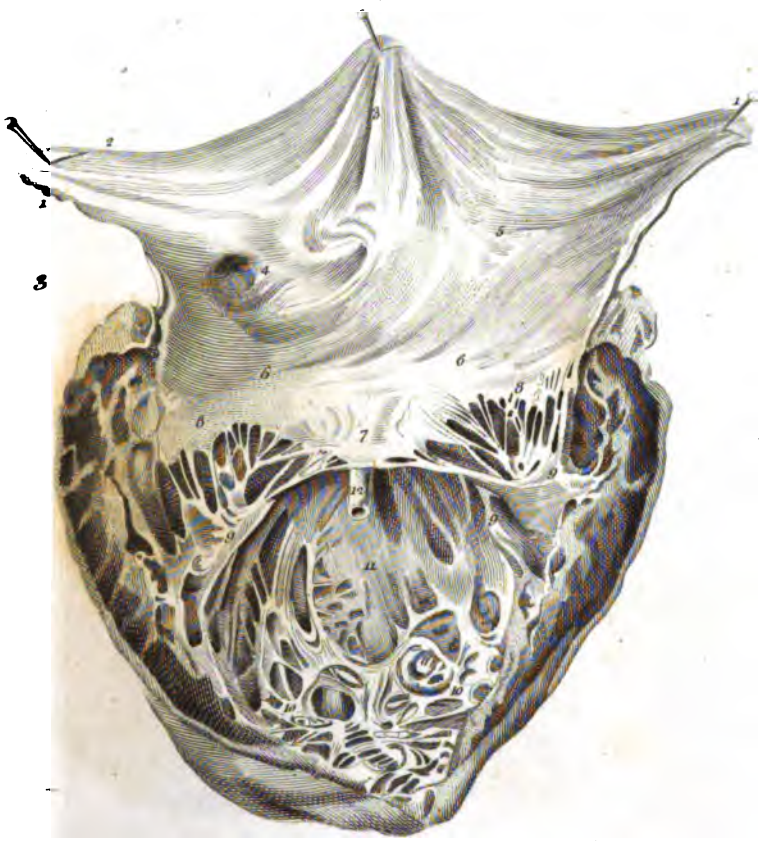
Milton sculp.

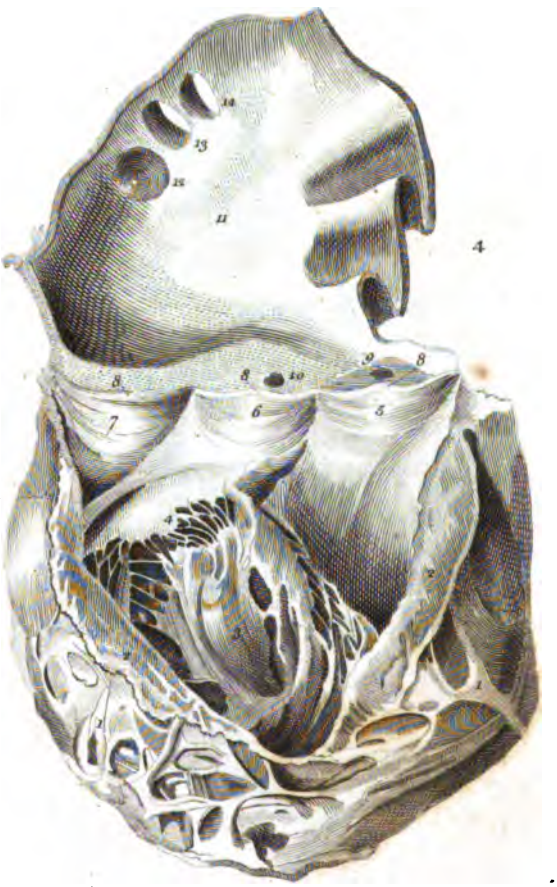
Viscera.

Fig. 1









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Milton sculp.

ANATOMY

of Birds.

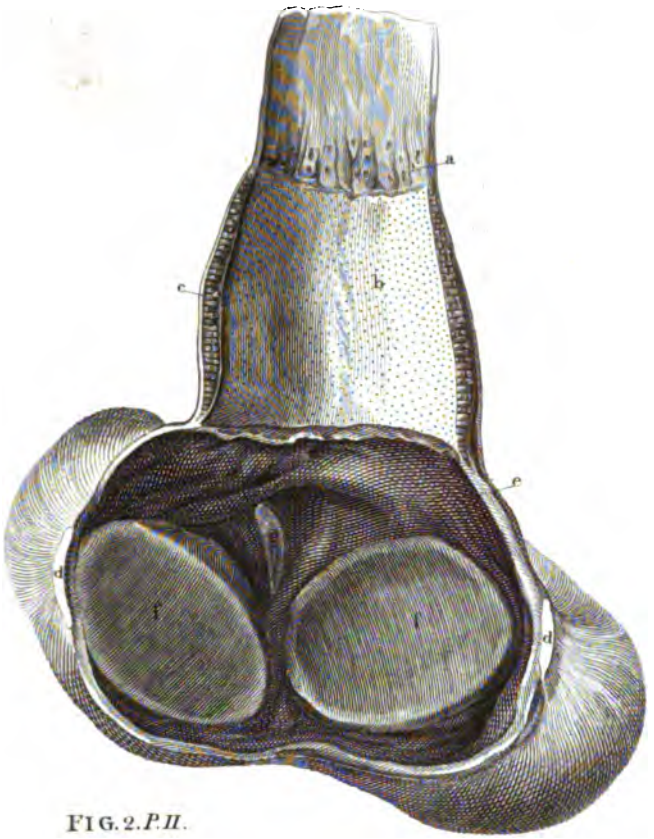


FIG. 2. *P. II.*

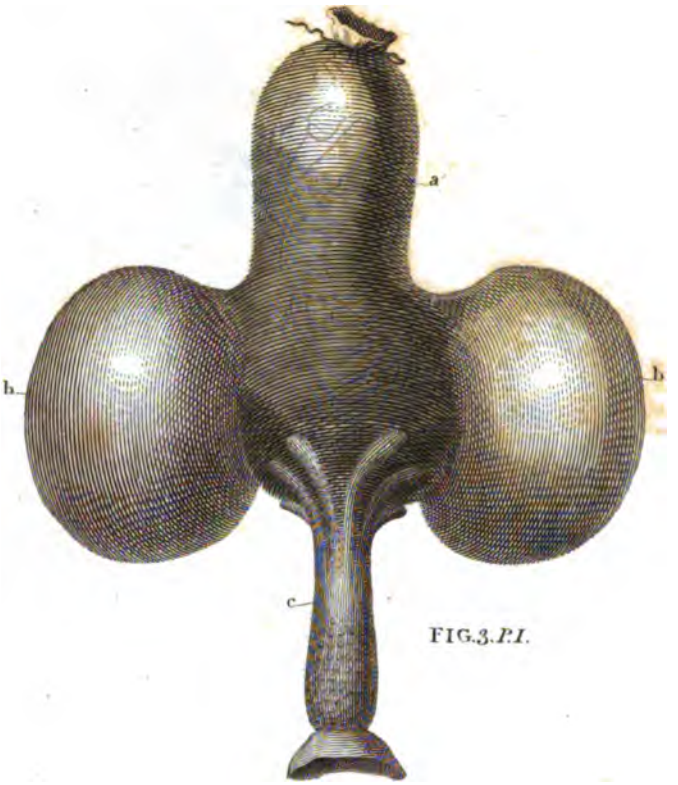


FIG. 3. *P. I.*

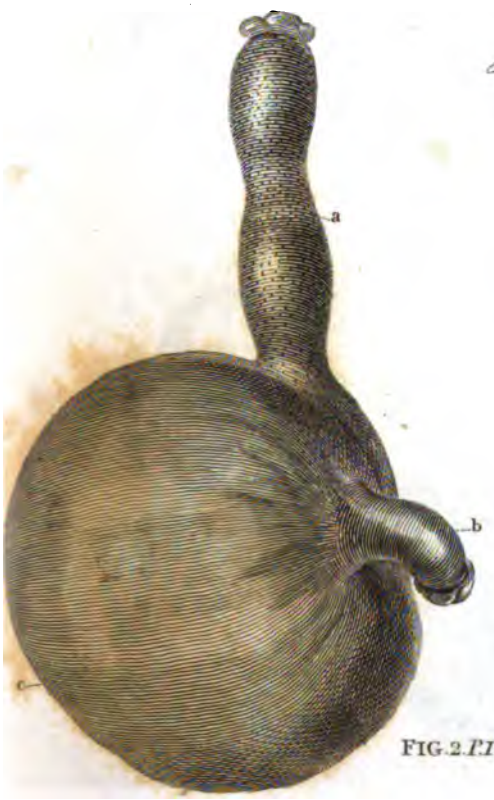


FIG. 2. *P. I.*

FIG. 1. *P. I.*

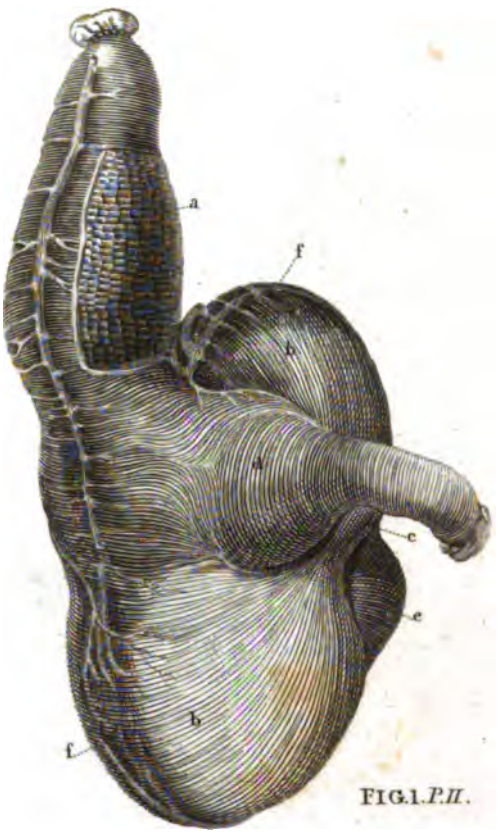


FIG. 1. *P. II.*

Published as the Act directs, Jan. 1, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

FIG. I.

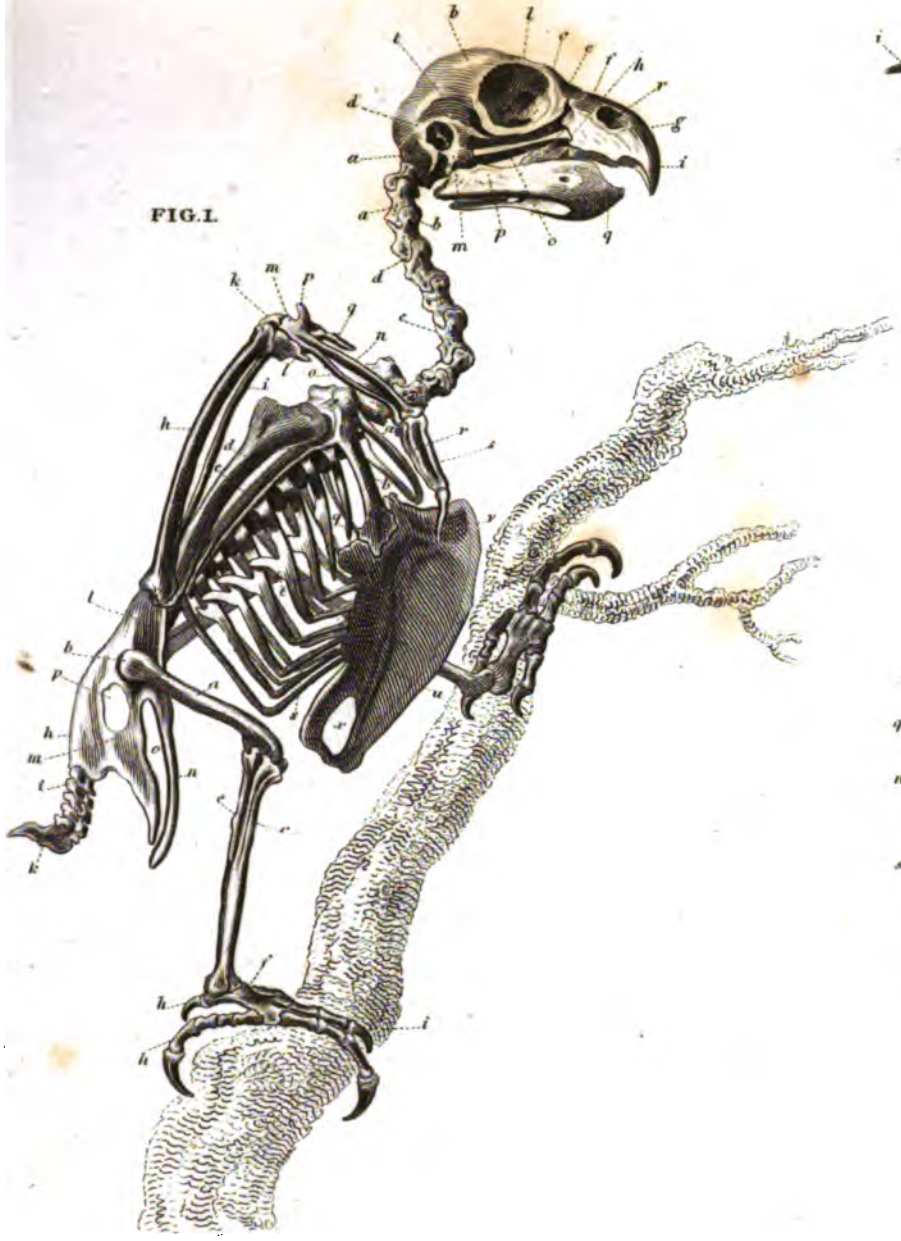
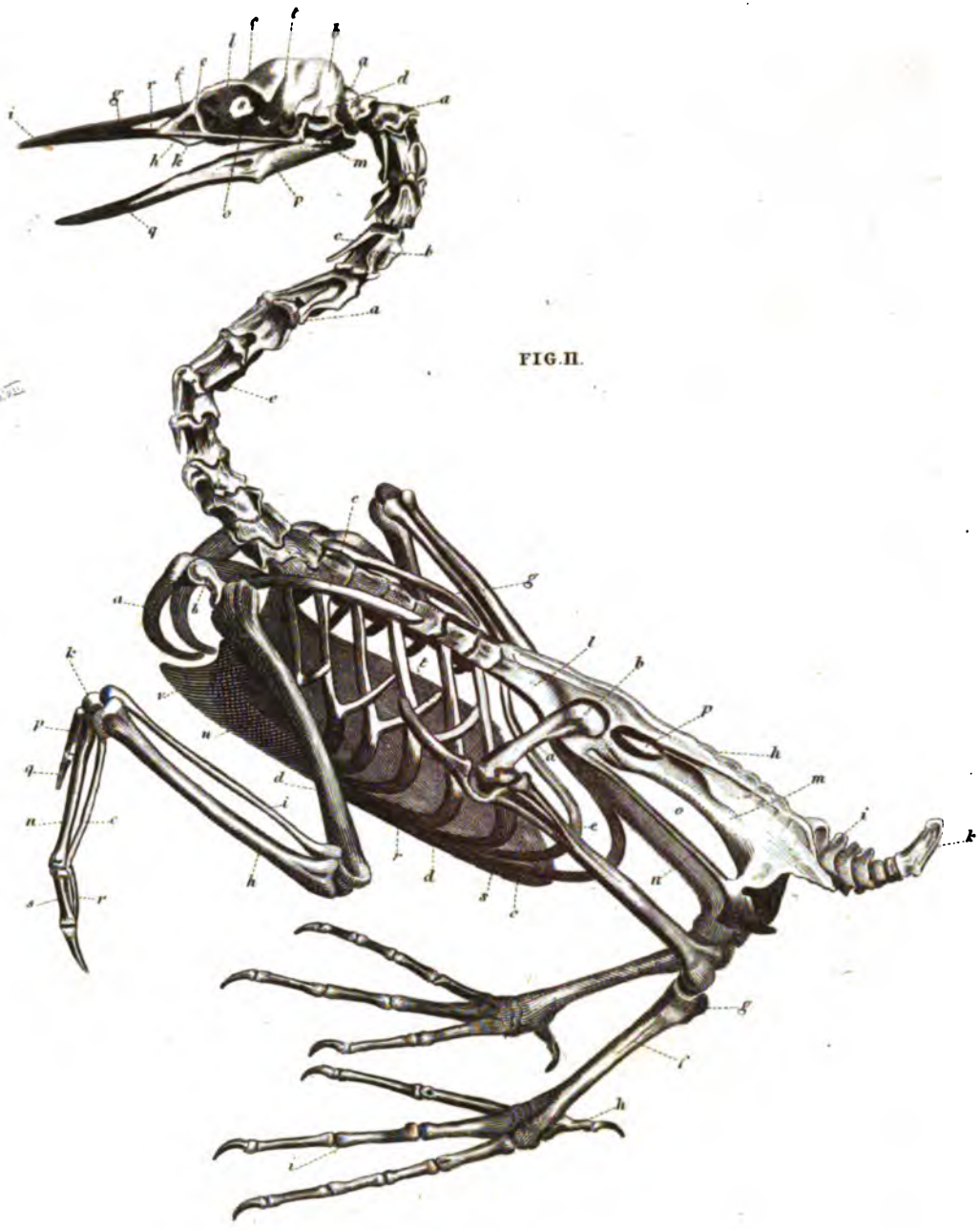


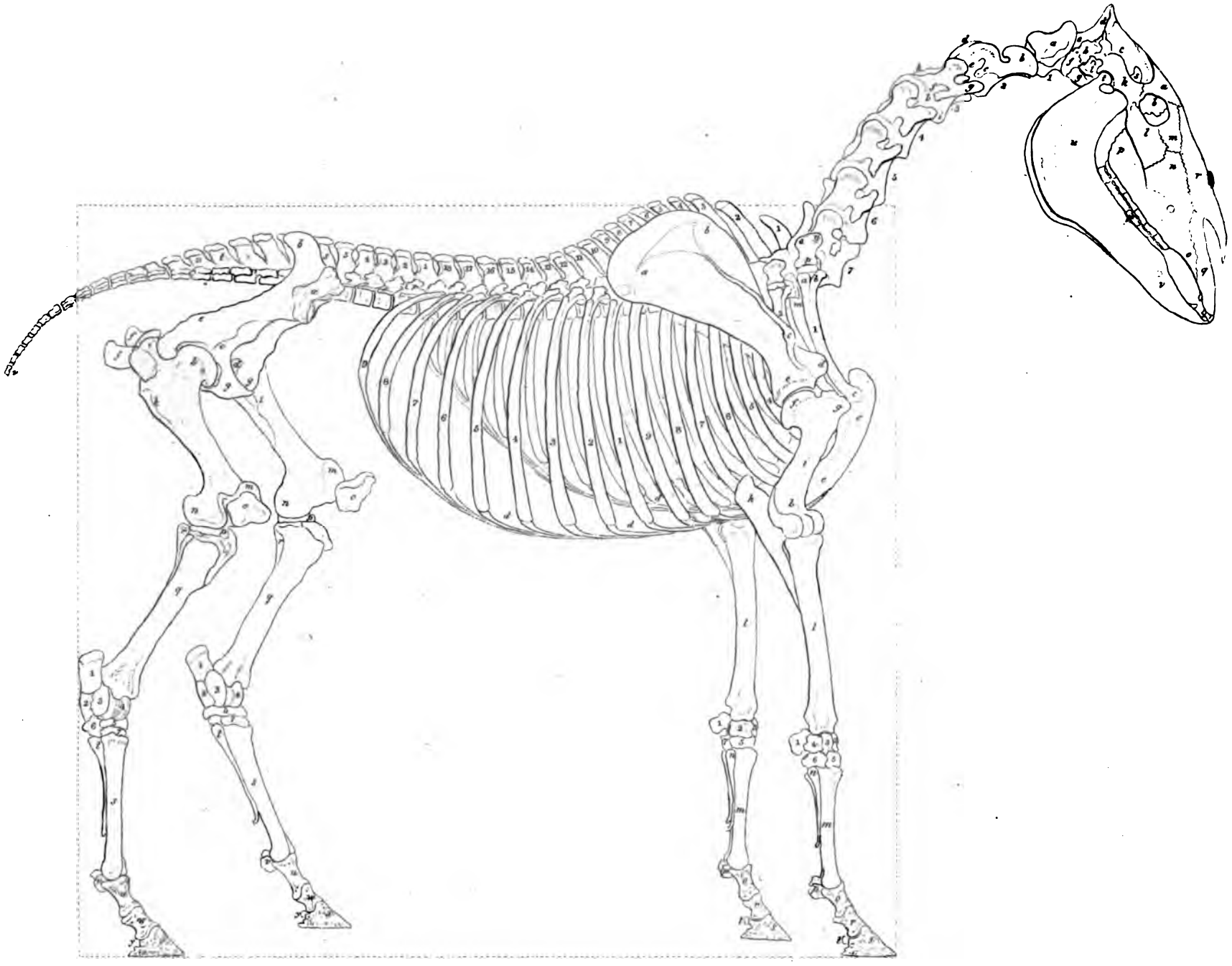
FIG. II.



Published as the Act directs, July 1st 1830 by Longman Rees Orme & Brown Paternoster Row.

ANATOMY

of the Horse.

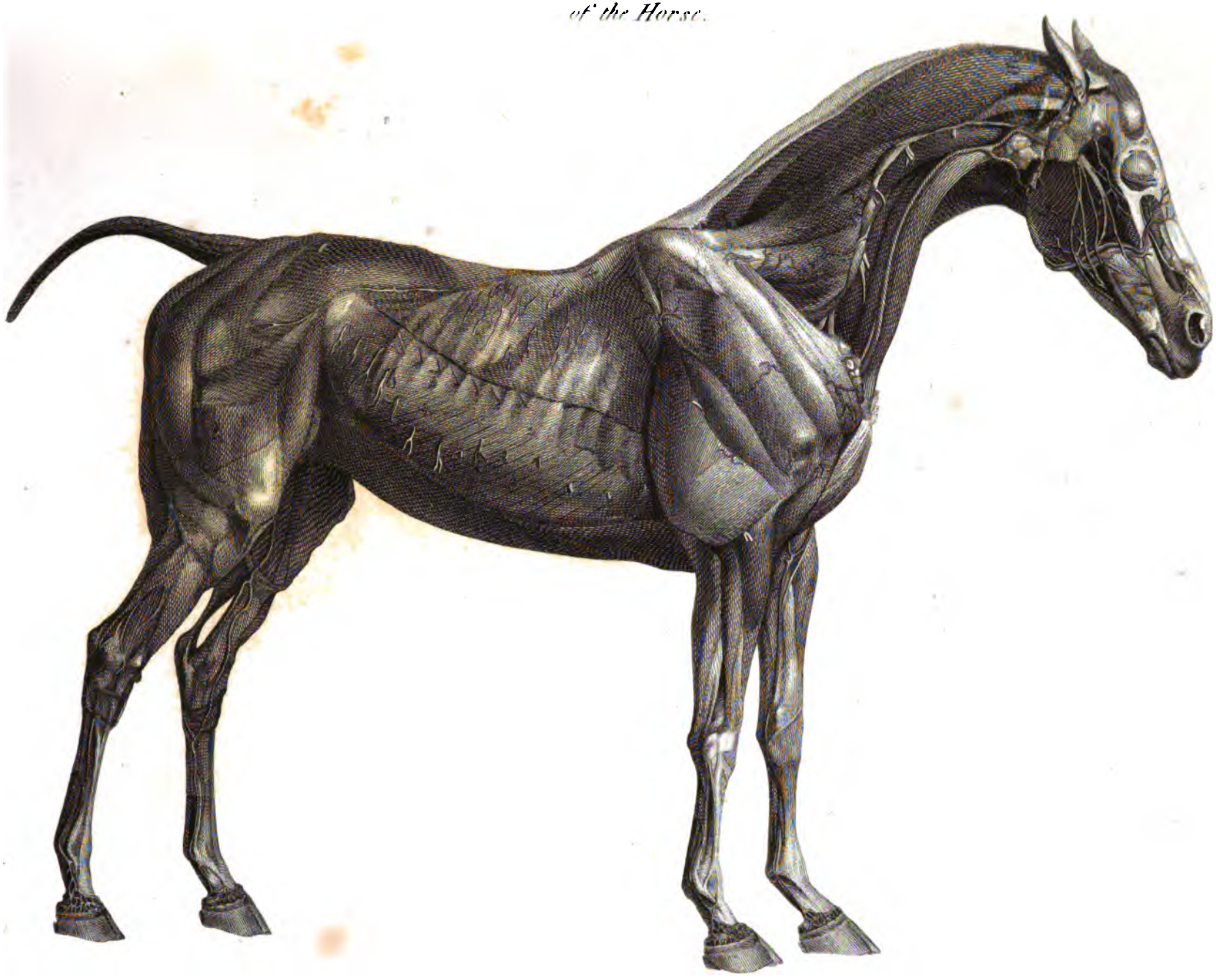


Published as the Act directs Sep.t 1. 1802, by Longman & Rees Paternoster Row.

ANATOMY

of the Horse.

PLATE



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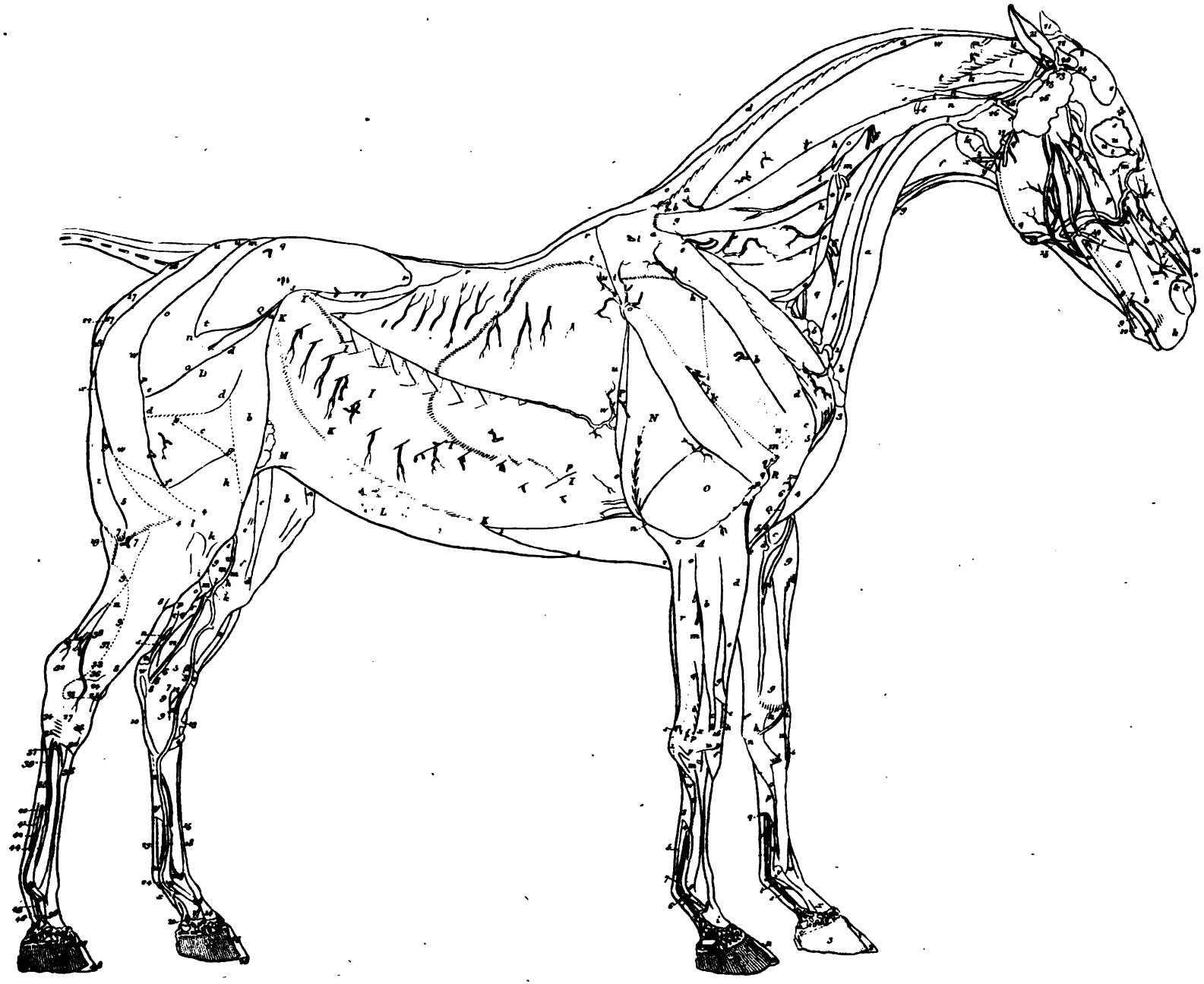
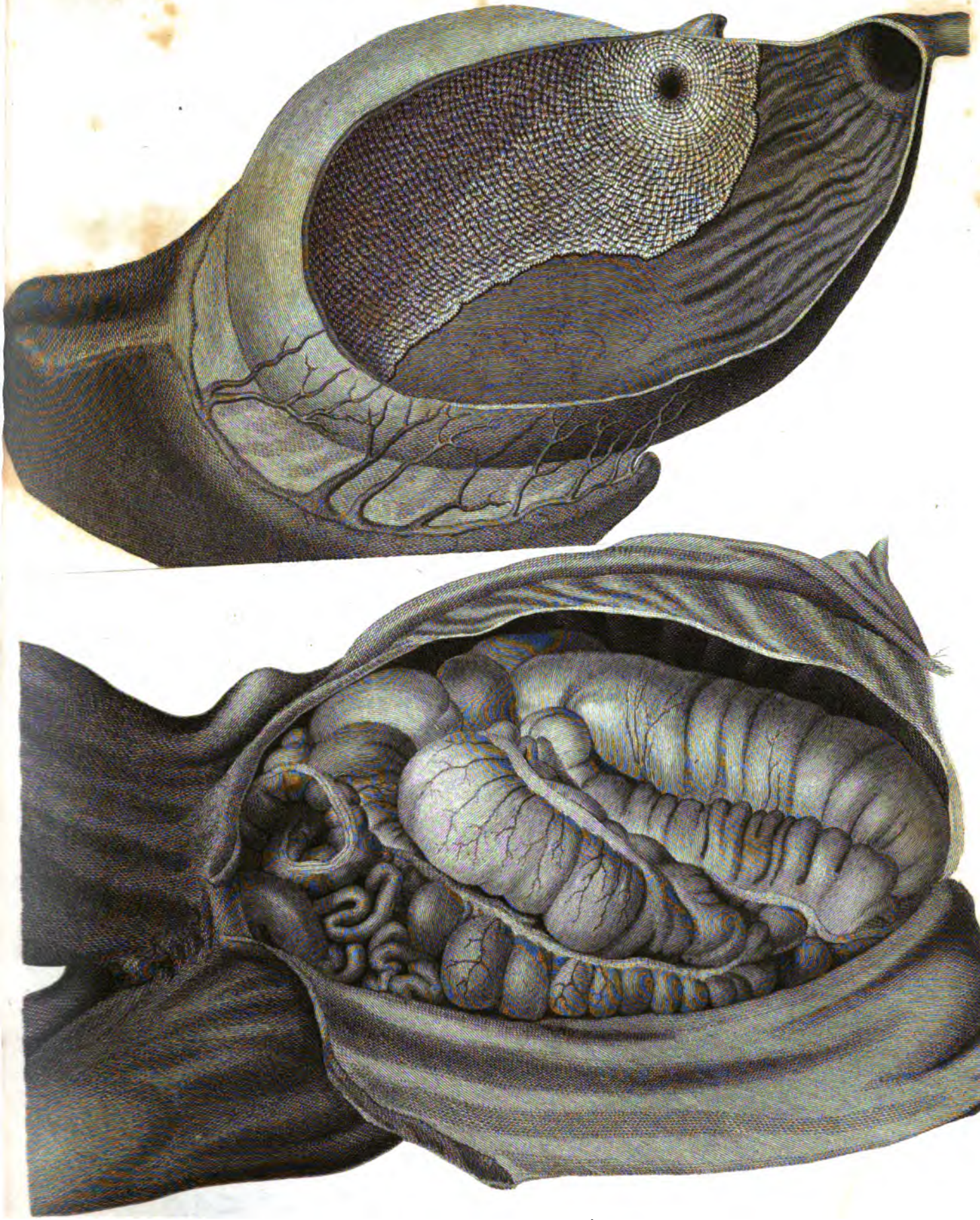


Published as the Act directs. May 21 1809, by Longman & Rees Paternoster Row.

ANATOMY *of the Horse.*



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ARCHITECTURE.

Fig. 4.

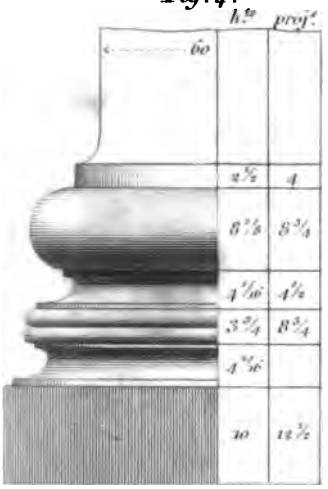
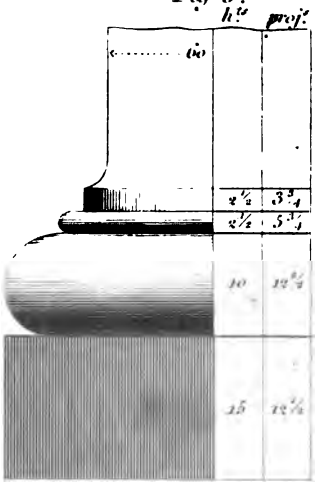


Fig 3.



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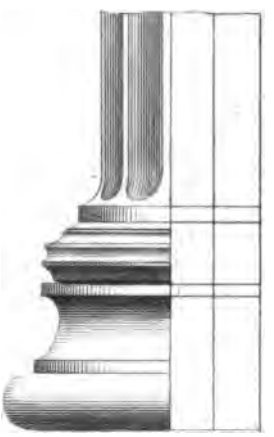


Fig. 1.

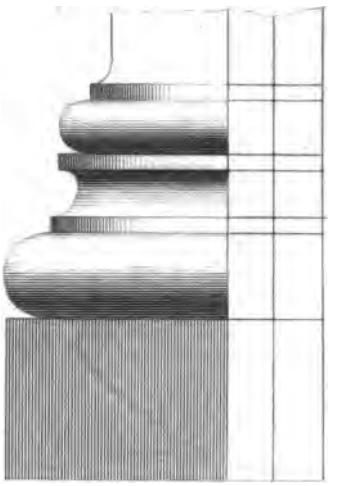
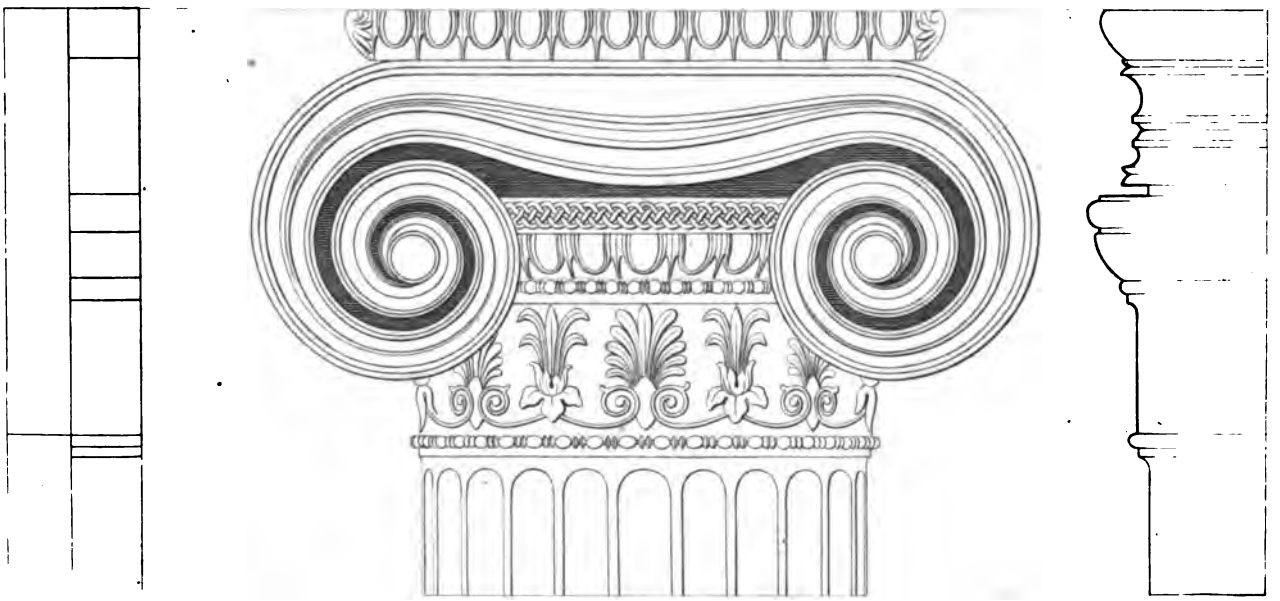


Fig. 7.



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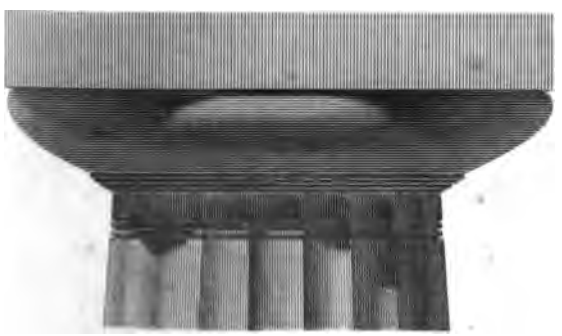


Fig. 5.

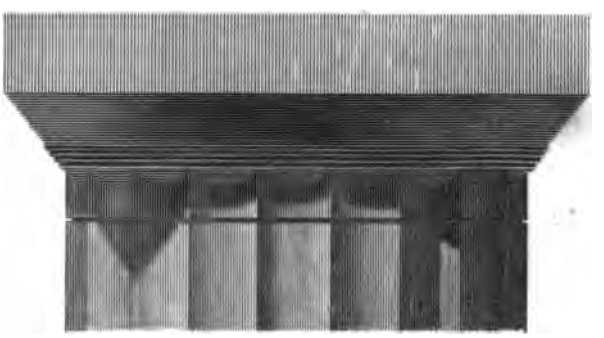


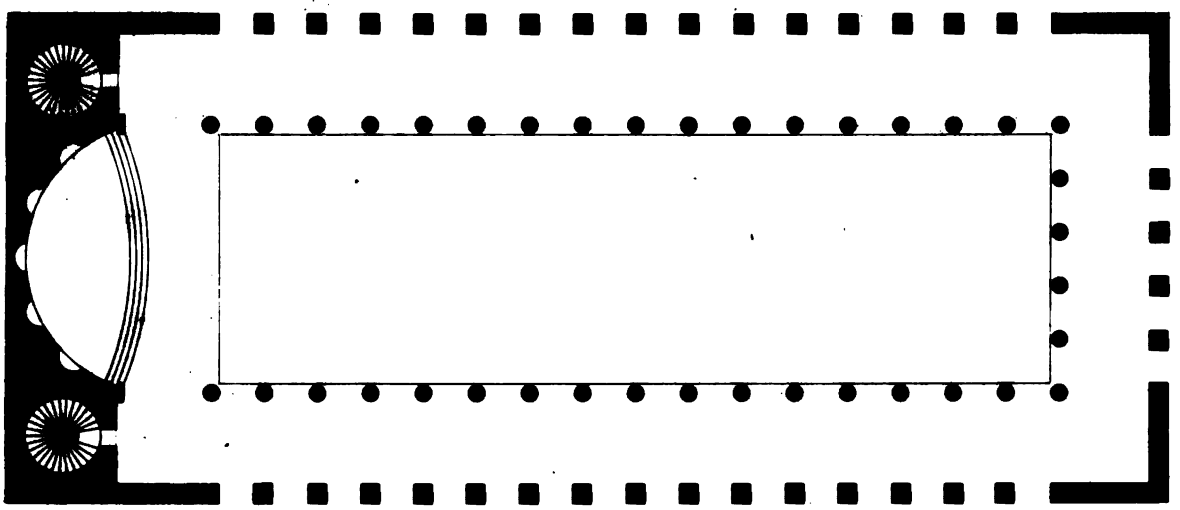
Fig. 1. Attic Base from the remains of the Temple of Jupiter Olympius at Athens.
Fig. 2. Attic Base from the Temple of Minerva Polias at Athens.
Fig. 3. Doric Base & Fig. 4. Ionic Base according to Vignola.
Fig. 5. Doric Capital from the portico of Philip in the Island of Delos.
Fig. 6. Doric Capital from the Temple at Corinth.
Fig 7. Ionic Capital from the Temple of Minerva Polias at Athens.

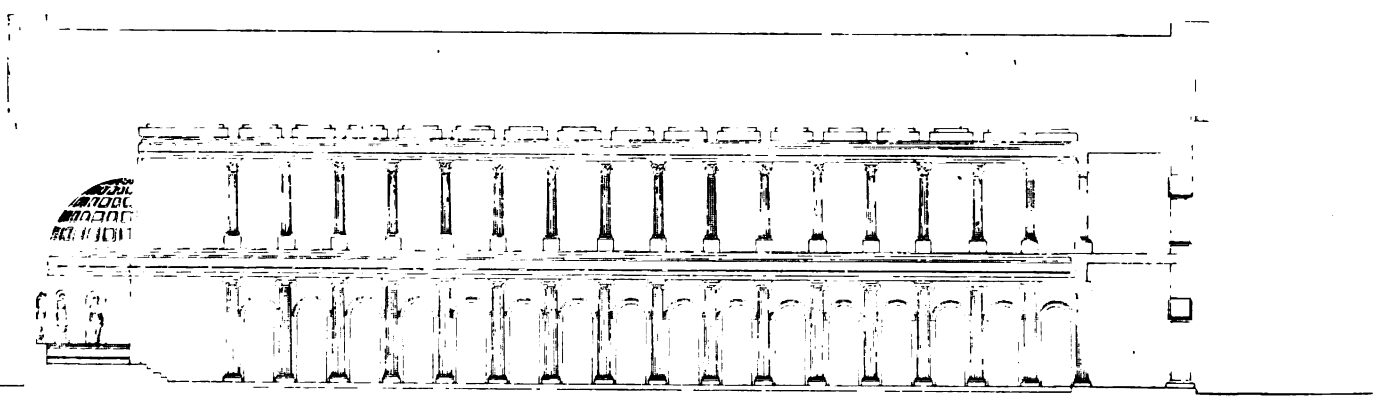
Published as the Act directs, Nov.r 1.st 1804, by Longman Hurst Rees & Orme, Paternoster Row.

Engraved by Wilson Lewis

ARCHITECTURE.

ROMAN BASILICA, FROM THE DESCRIPTION OF VITRUVIUS.

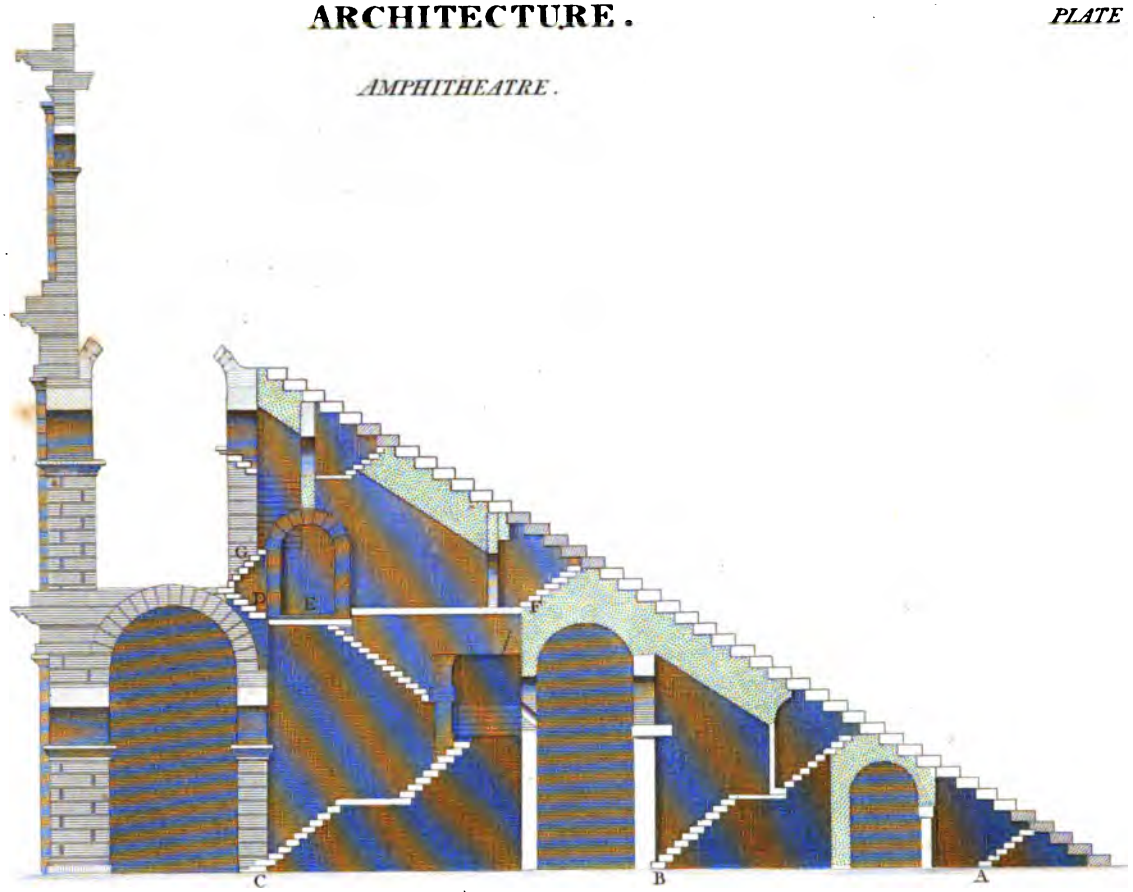




Published as the Act directs, June 4th 1804, by Longman & Rees, Paternoster Row.

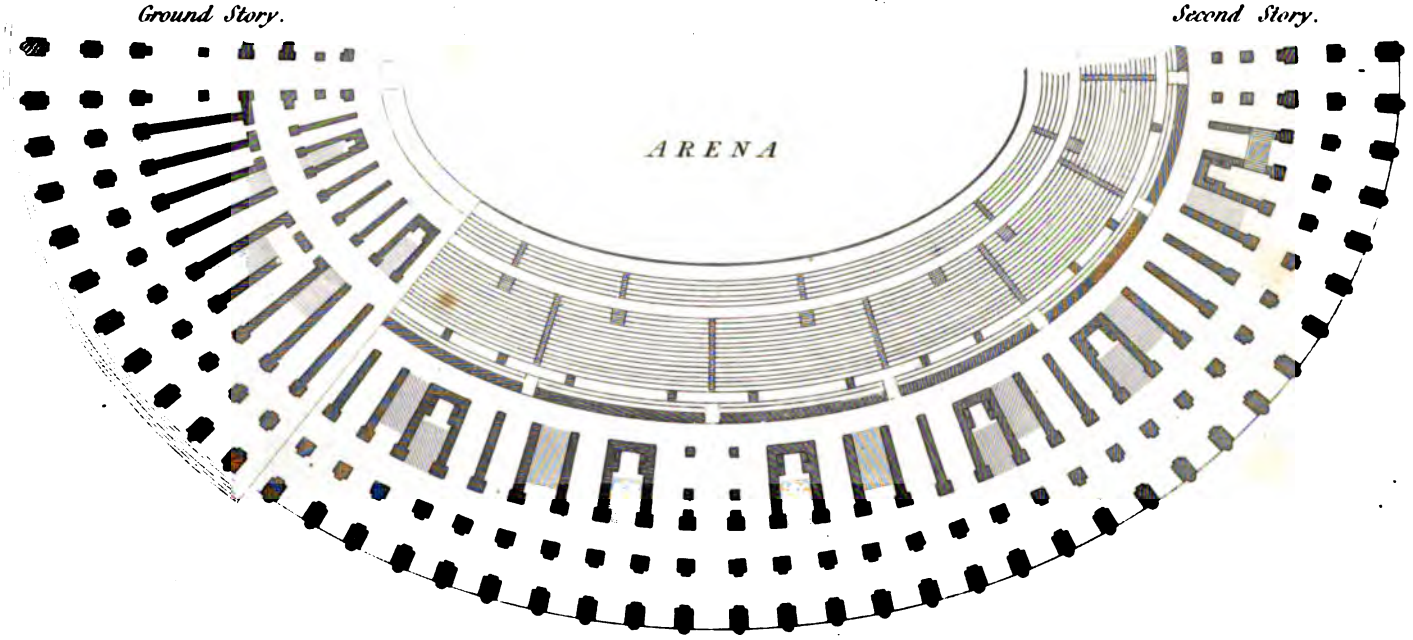
Engraved by Wilson Lowry.

AMPHITHEATRE.



N°. 1. Referred to as Architecture. PLATE II.

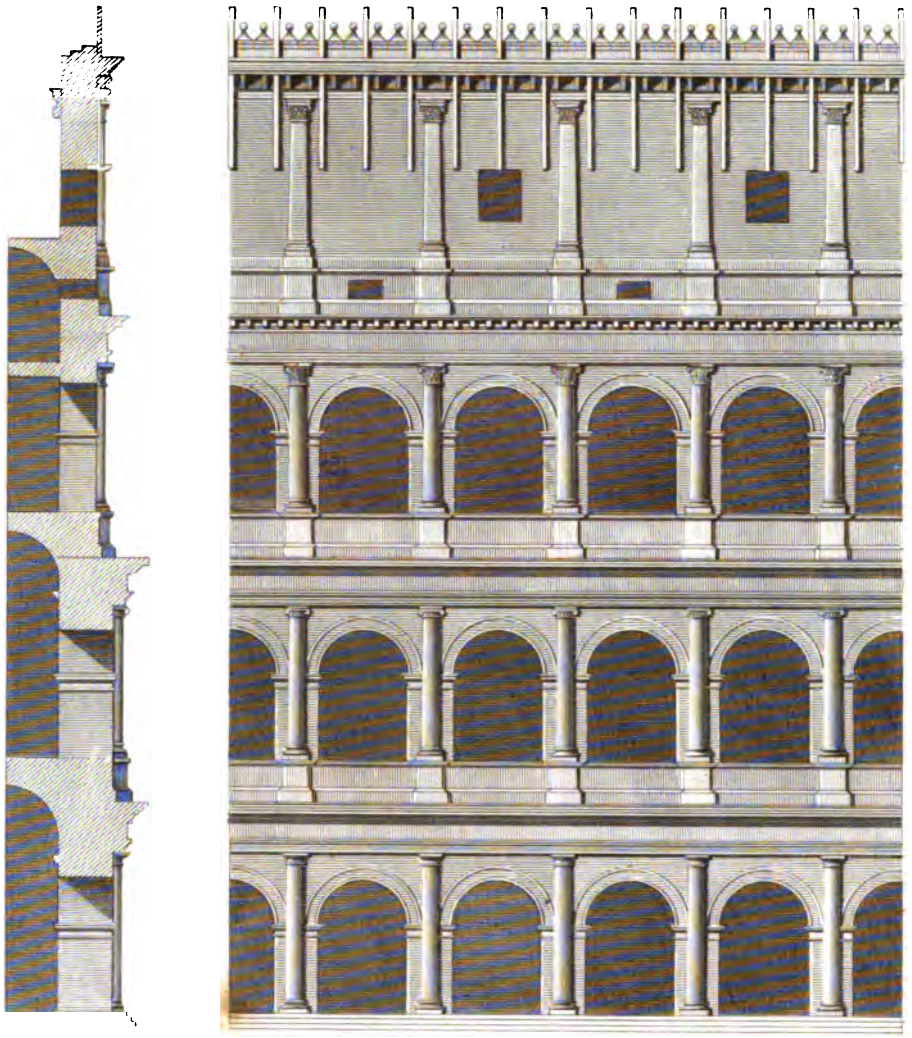
Ground Story. *Second Story.*

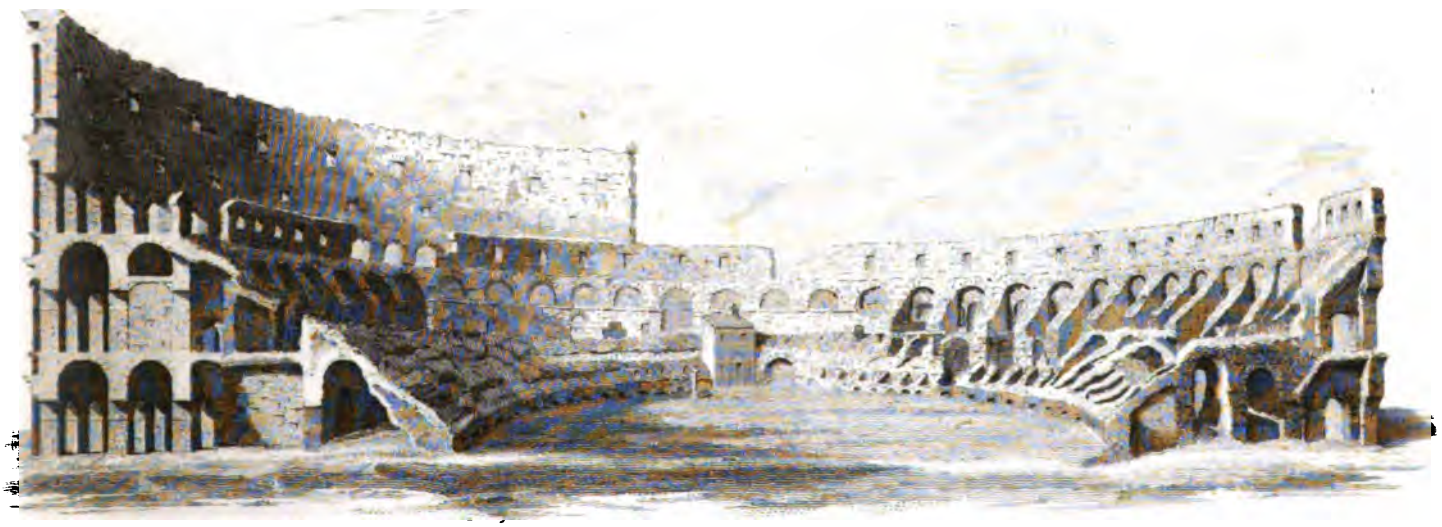


N°. 2. Referred to as Architecture. PLATE III.

Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. *Lowry Sc.*

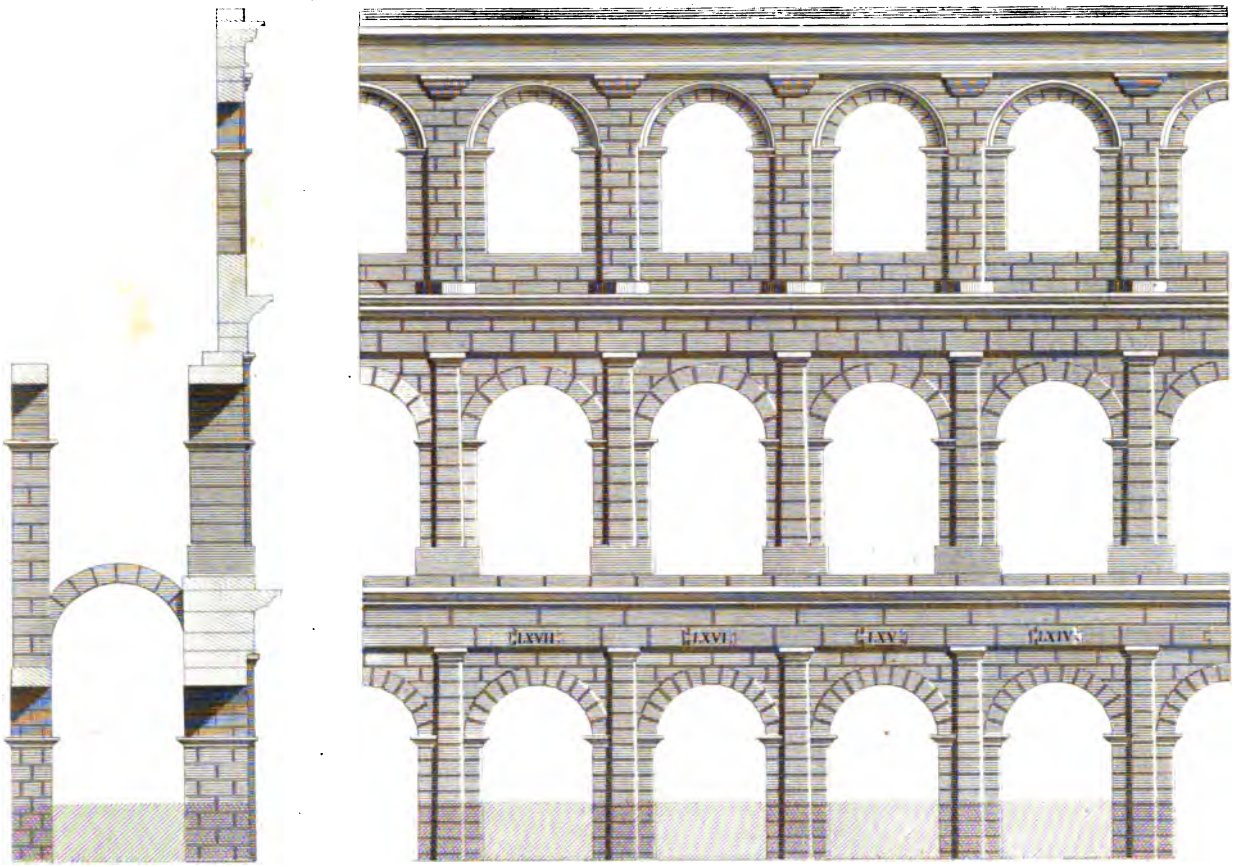
N.º 1. Referred to as Architecture **PLATE IV.**



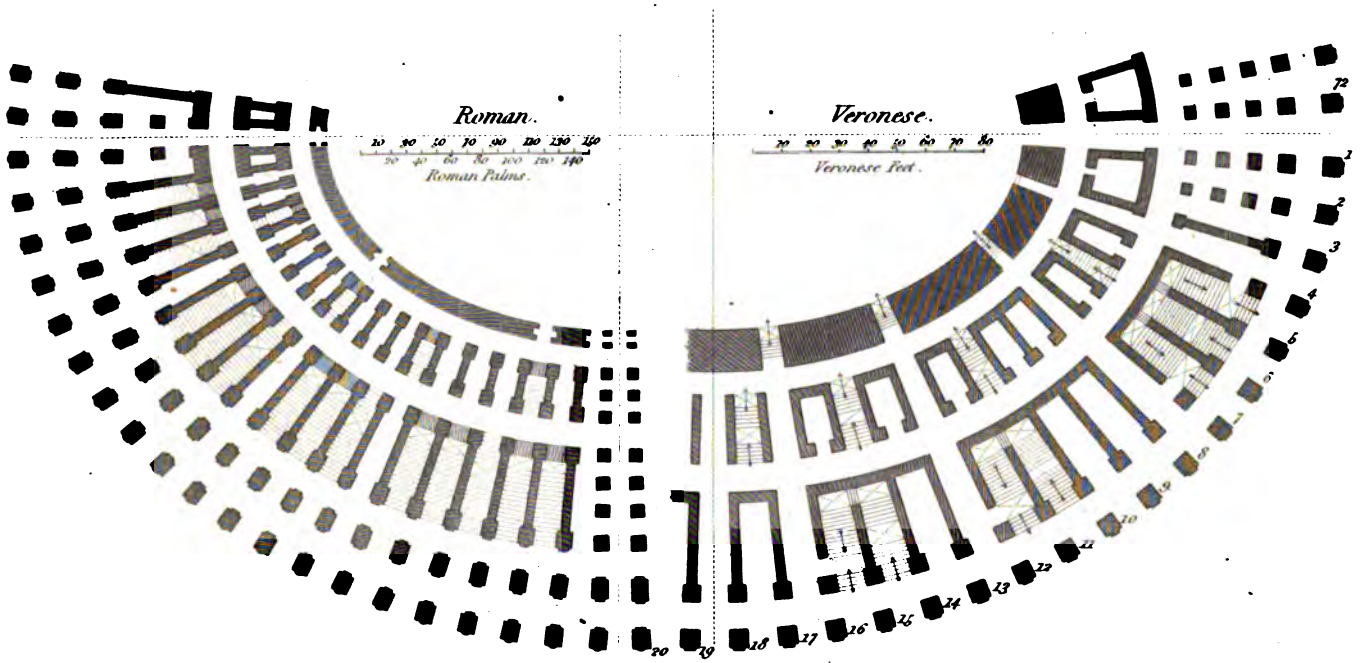


N.º 2. Referred to as Architecture **PLATE V.**

N°. 1. Referred to as Architecture, Plate VI.



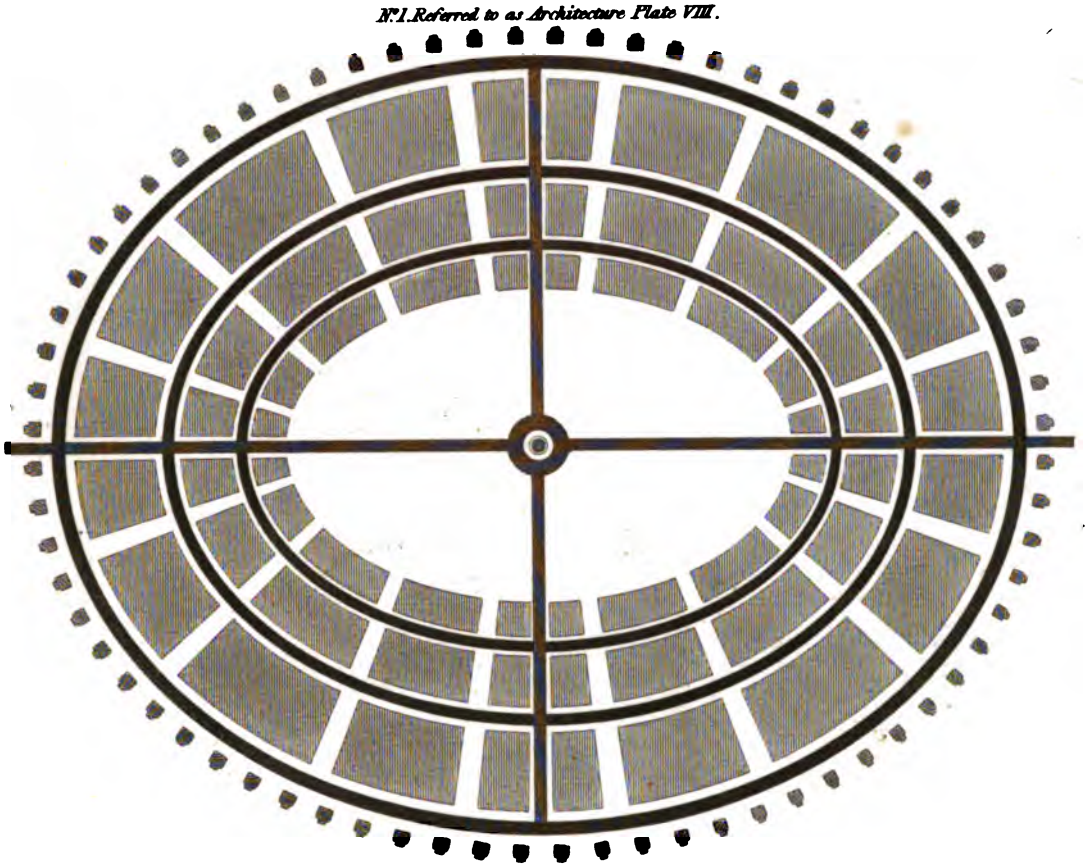
N°. 2. Referred to as Architecture, Plate VII.



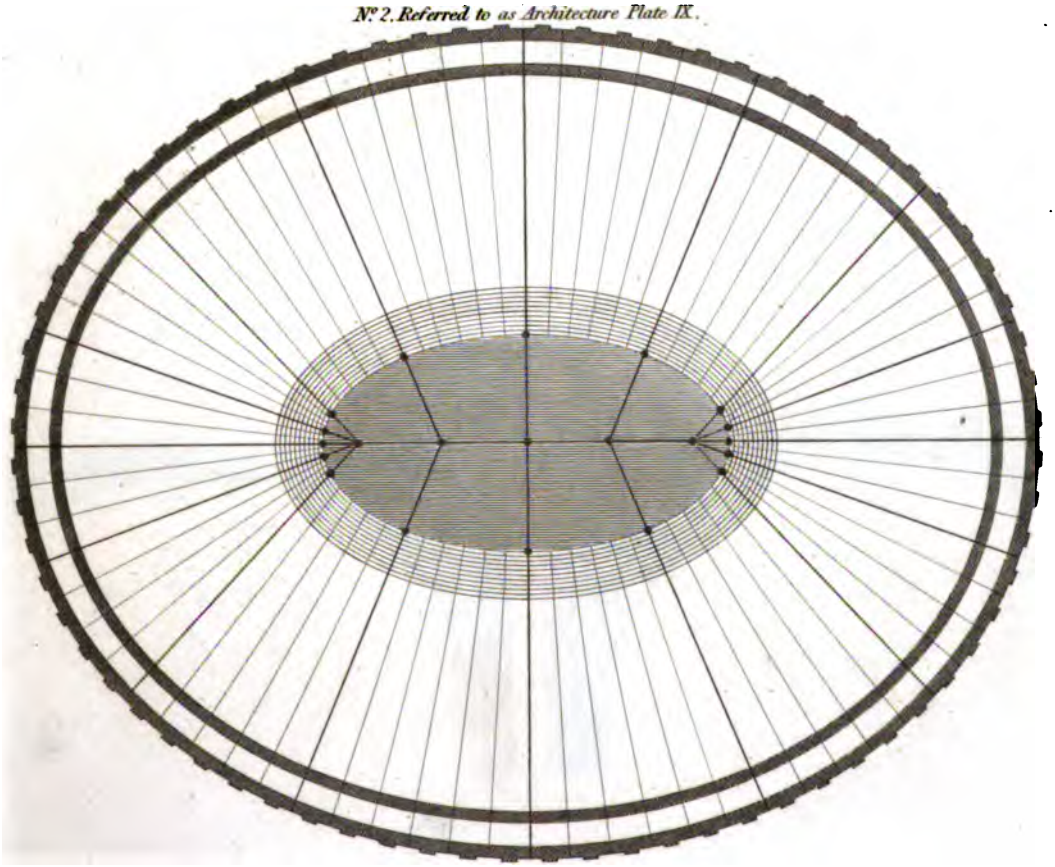
ARCHITECTURE.

AMPHITHEATRE.

N°1. Referred to as Architecture Plate VIII.



N° 2. Referred to as Architecture Plate IX.



Published as the Act directs, 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row, London.

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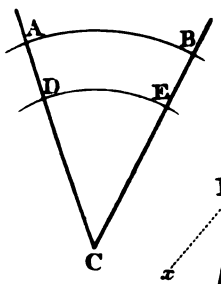
ARCHITECTURE.

ARCH.

Fig. 1.



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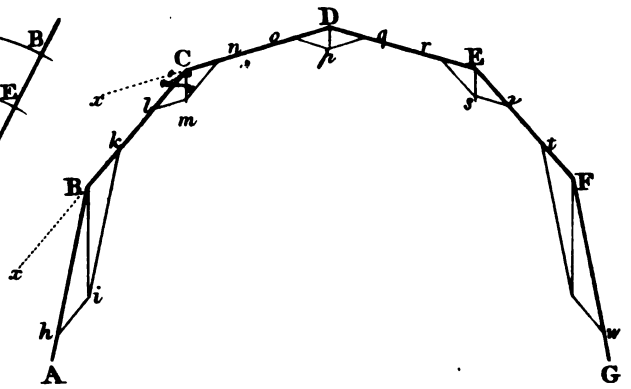

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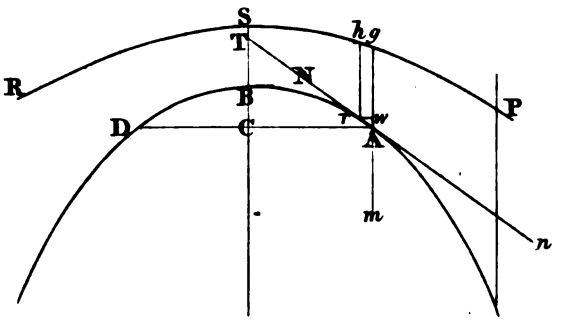

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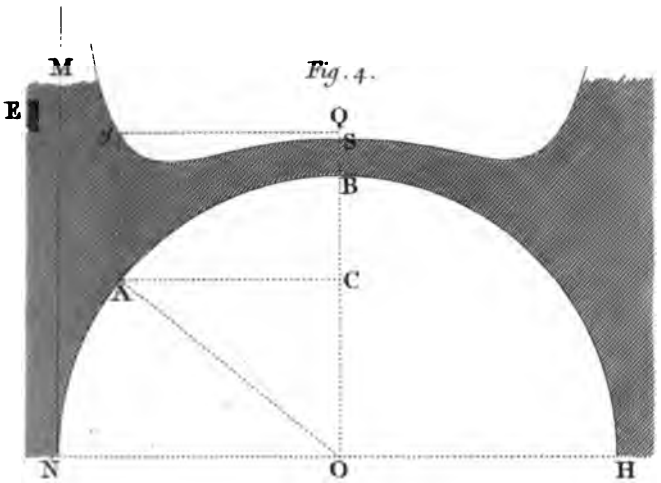

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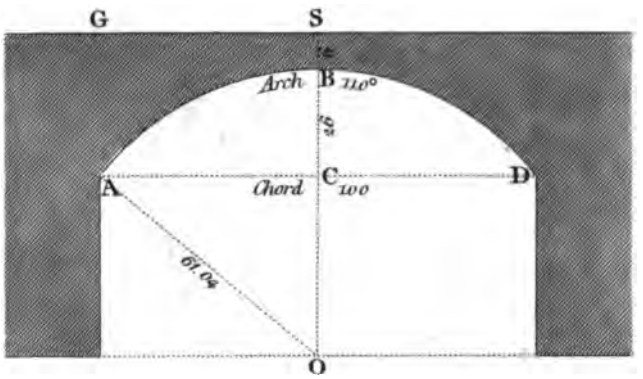

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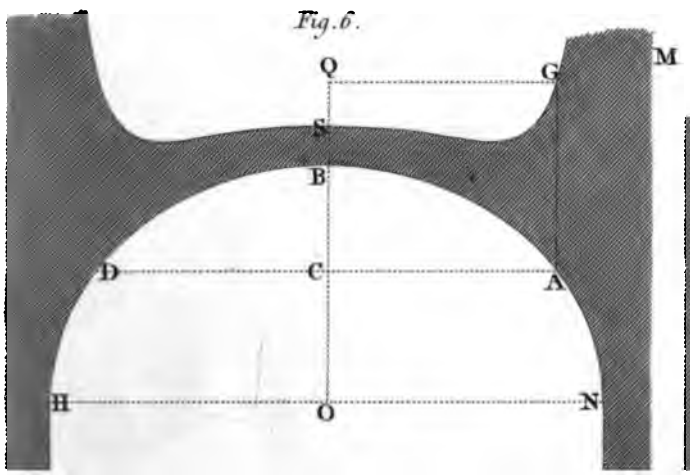

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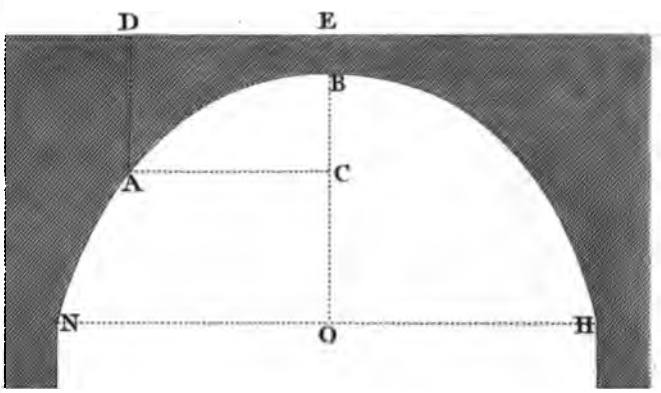

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DOME.

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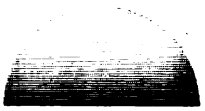

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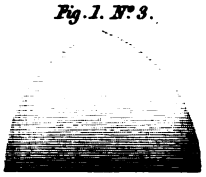

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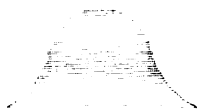

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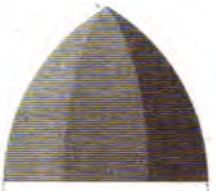

Fig. 2. N° 3.

Fig. 2. N° 2.

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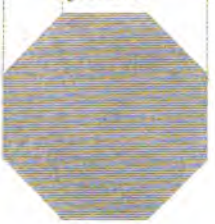

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Fig. 3. N° 5.

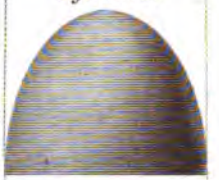

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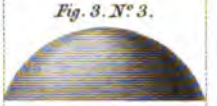
Fig. 3. N° 3.



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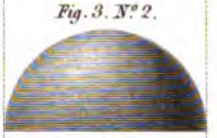

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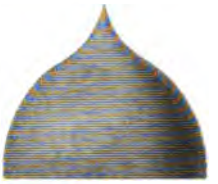

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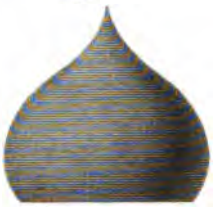

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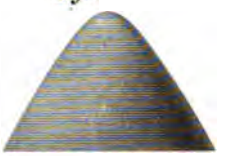

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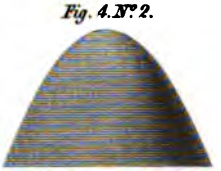

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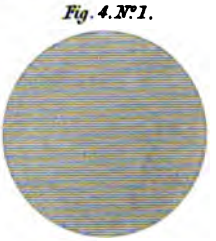

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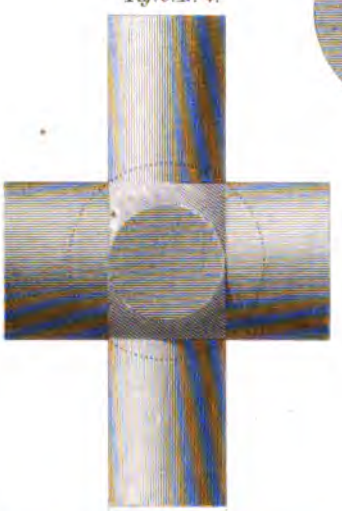
Fig. 6. N° 1.

Fig. 6. N° 3.

Fig. 6. N° 4.



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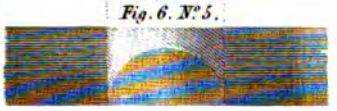

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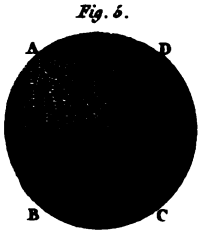

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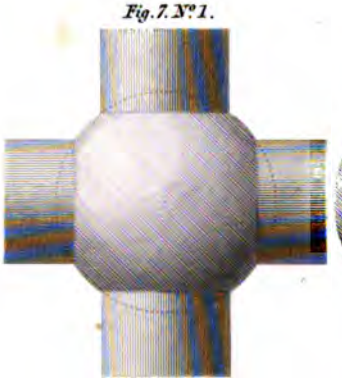

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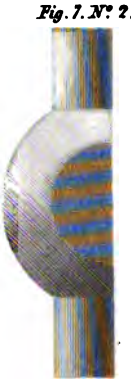

m by P. Nicholson.

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ARCHITECTURE.

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PLATE XLI & VIII.

Fig. 2.

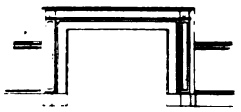

Fig. 3.

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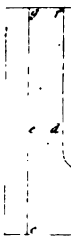

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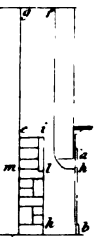

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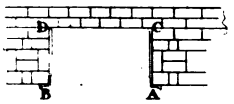

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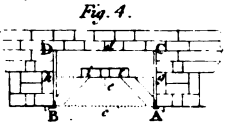

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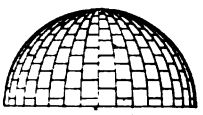

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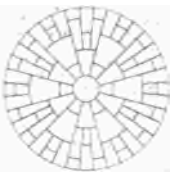
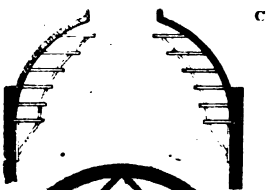


Fig. 3. N° 2.

Fig. 3. N° 3.



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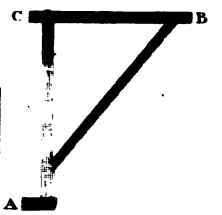

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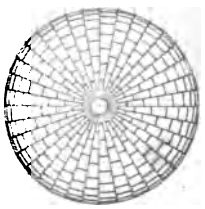

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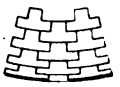

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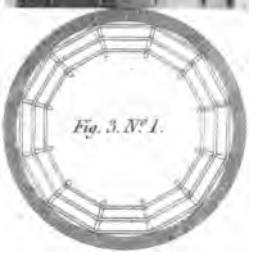

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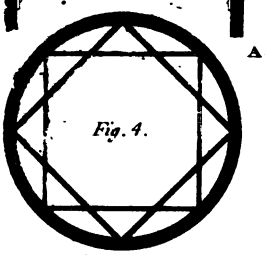

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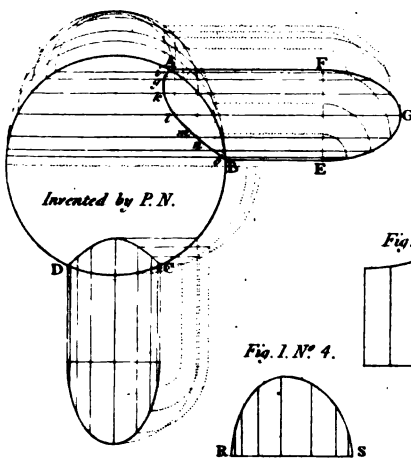

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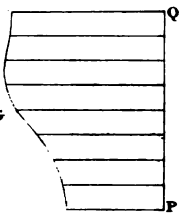

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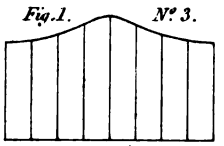

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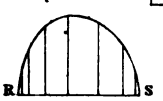

PLATE VIII. A.

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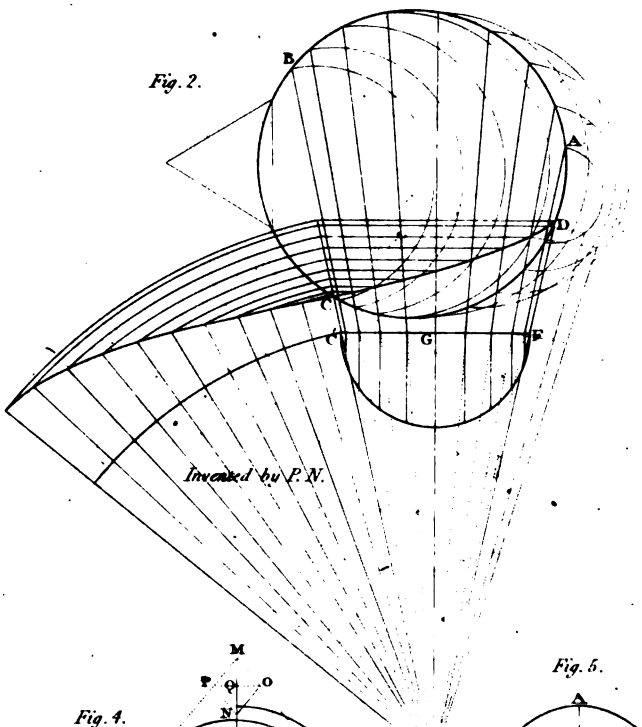


Fig. 3. N° 2.

Fig. 4. N° 2.

Fig. 5. N° 2.

Fig. 3. N° 1.

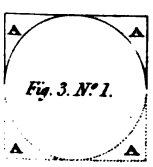
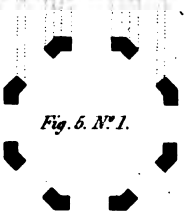


Fig. 4. N° 1.

Fig. 5. N° 1.



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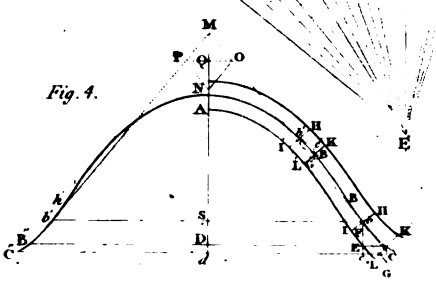

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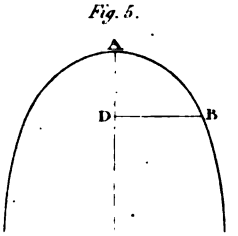

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ARCHITECTURE.

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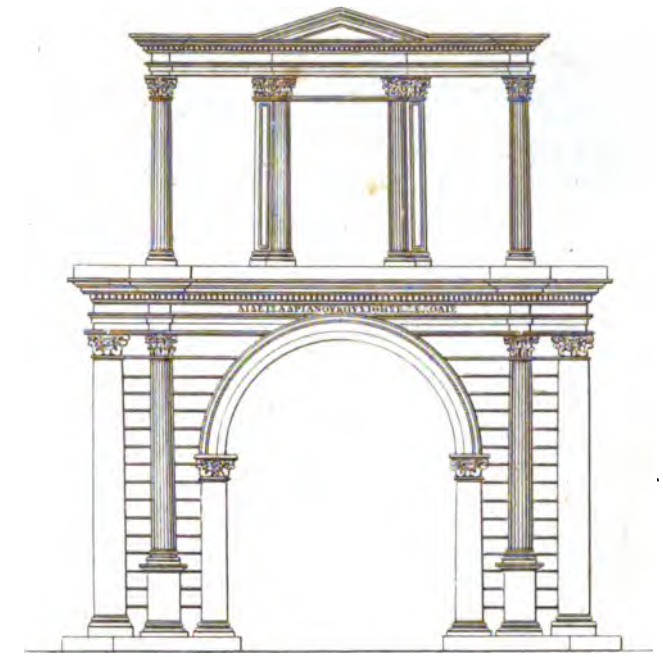

0 5 0 10 20 30 40 50 Feet.

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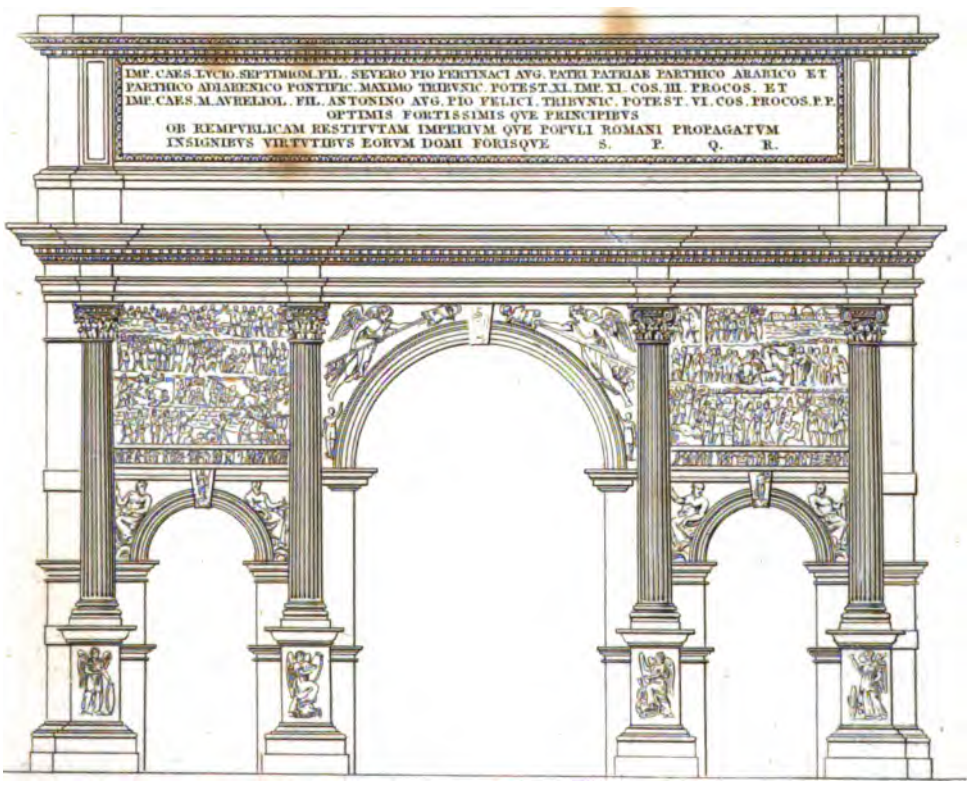


Fig. 1. The Arch of Adrian at Athens.

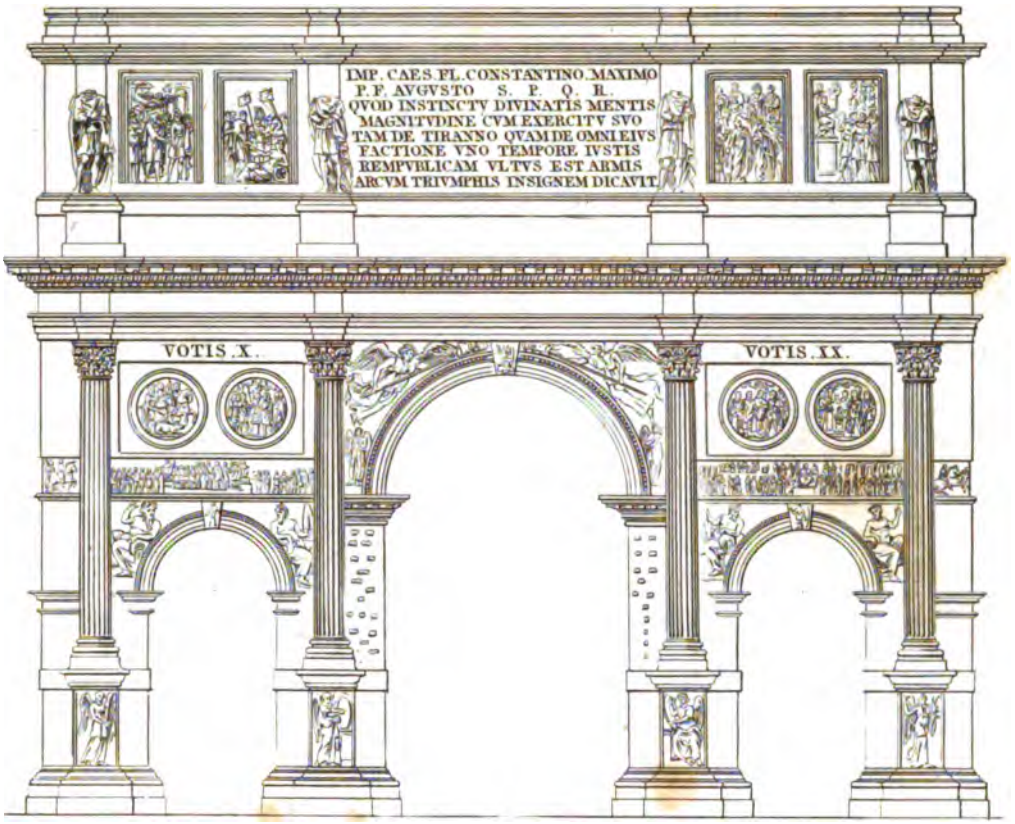
Fig. 2. The Arch of Septimius Severus at Rome.

Published as the Act directs July 1.1805. by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by [illegible]

ARCHITECTURE.

Fig. 1.



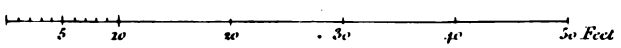


Fig. 2.

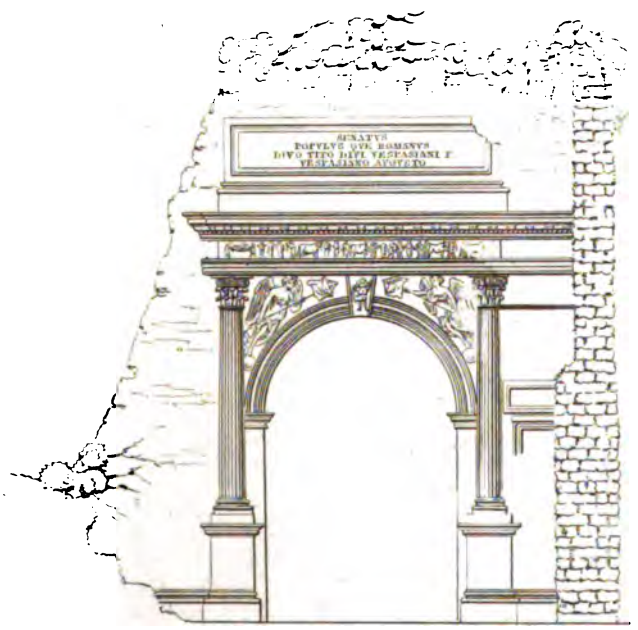


Fig. 3.

Fig. 1. The Arch of Constantine.

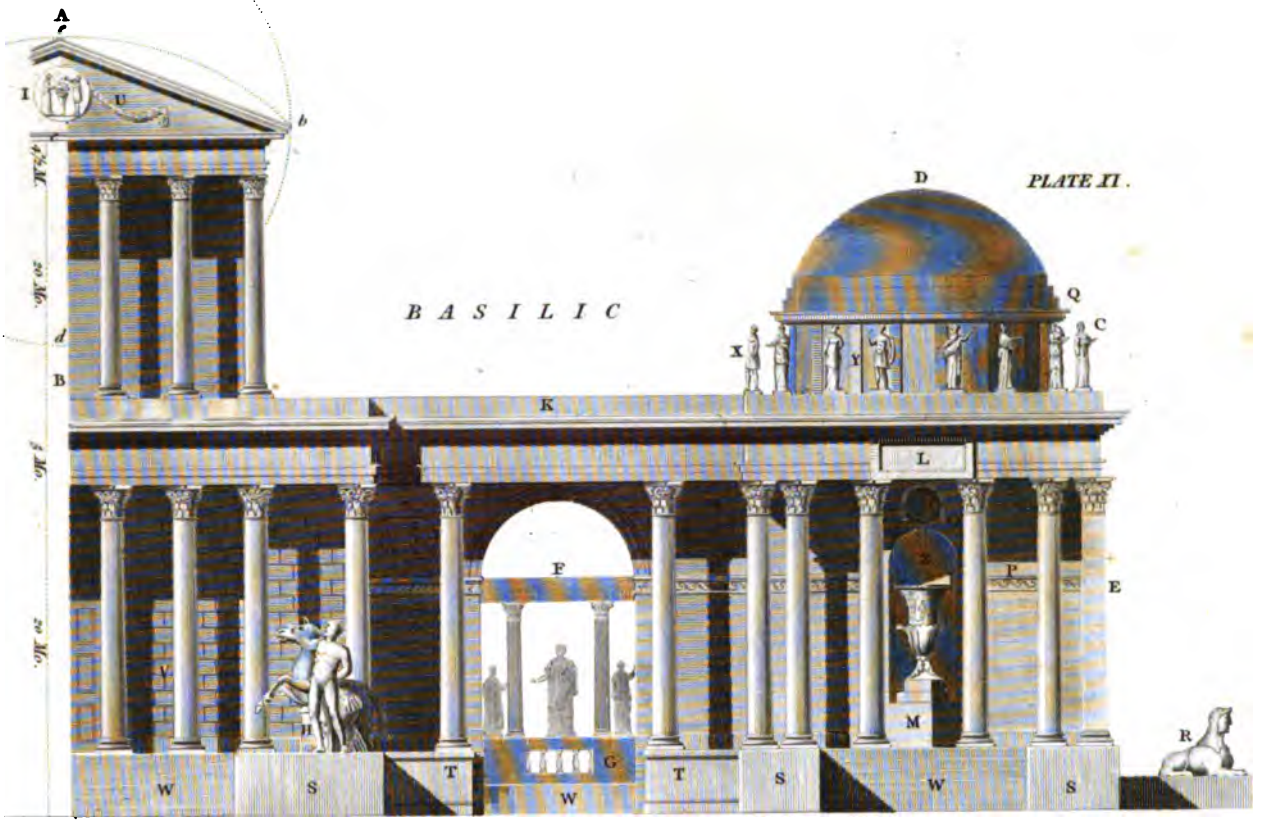
Fig. 2. The Arch of Titus.

Fig. 3. Section of the same.

Published as the Act directs, July 1st 1806, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson, [illegible]

PLATE II.



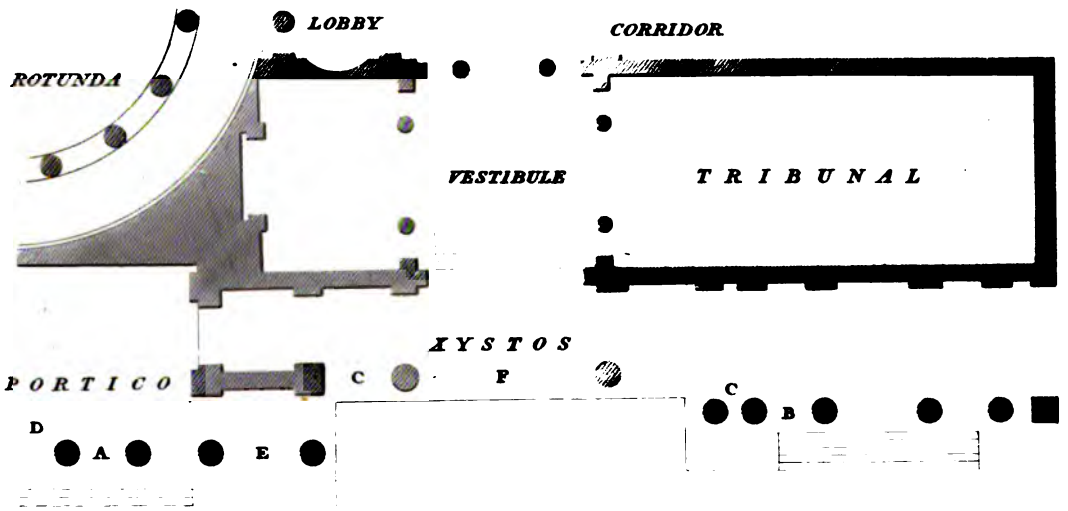
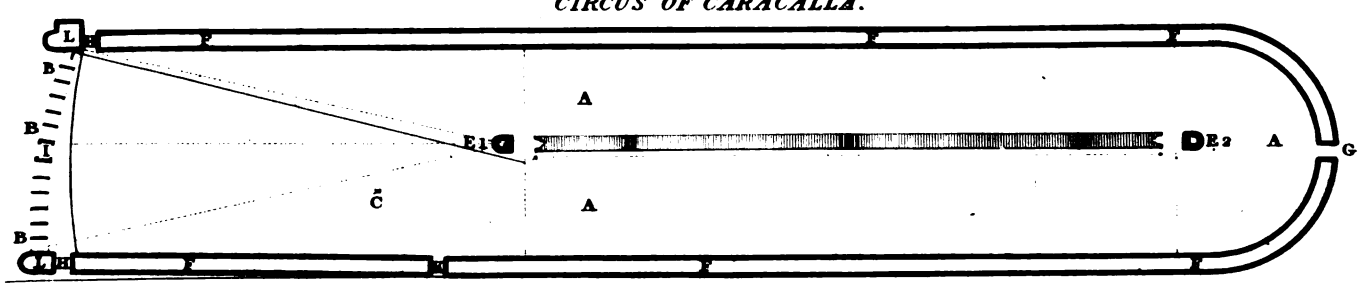


PLATE XII.

CIRCUS OF CARACALLA.

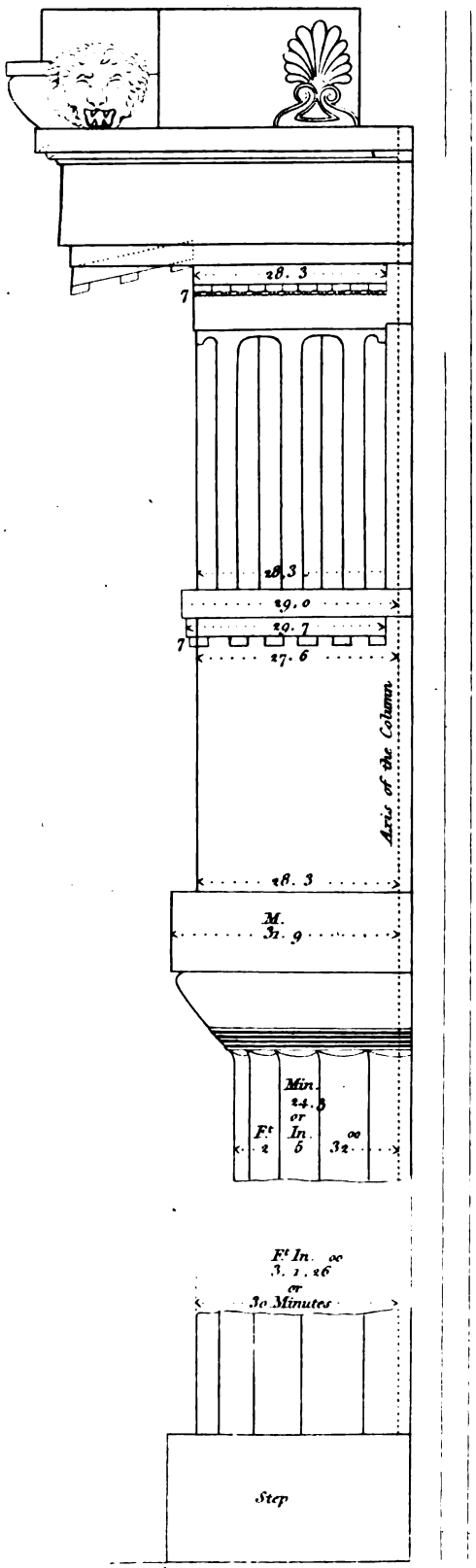


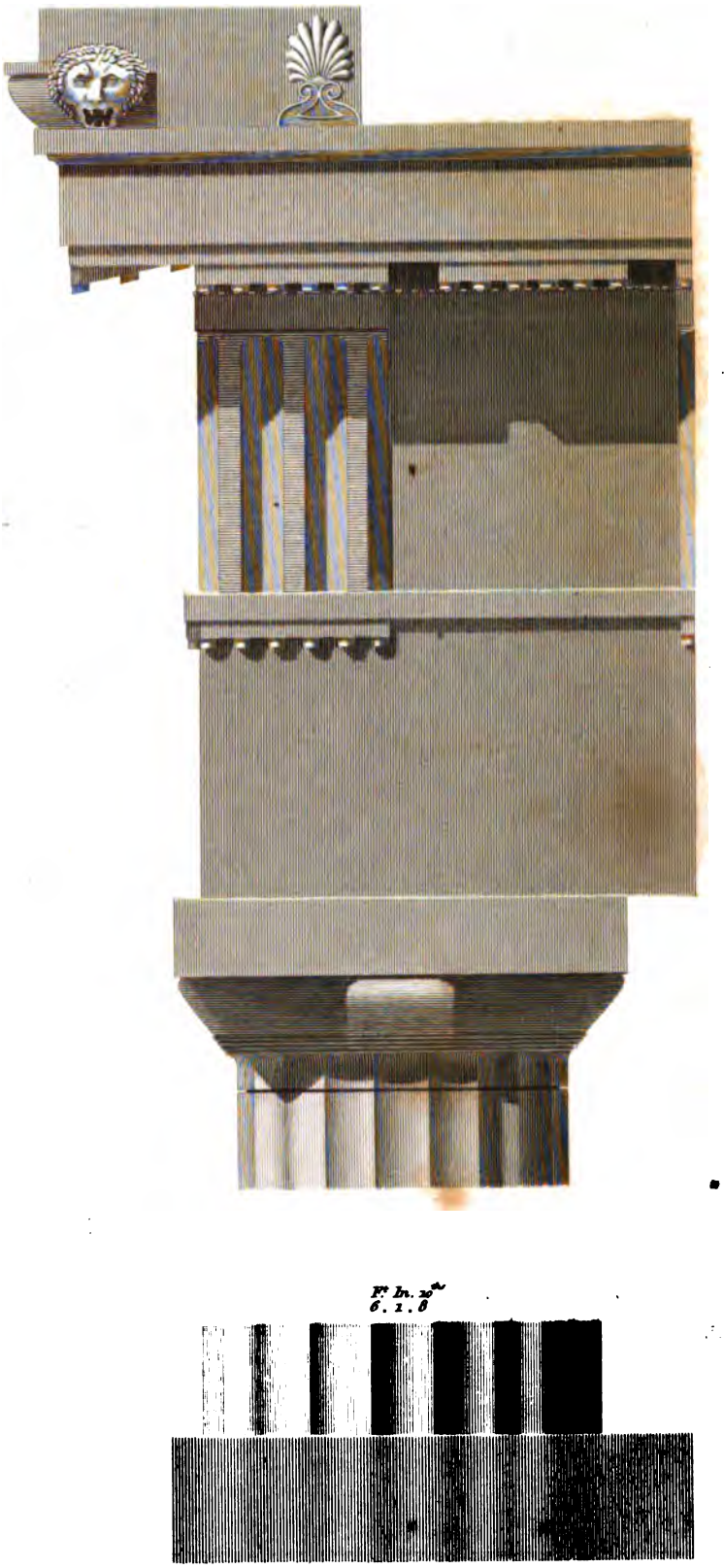
Published as the Act directs, 1810, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

J. Roffe, sculp.

ARCHITECTURE.

THE DORIC ORDER, FROM THE TEMPLE OF MINERVA CALLED THE PARTHENON.



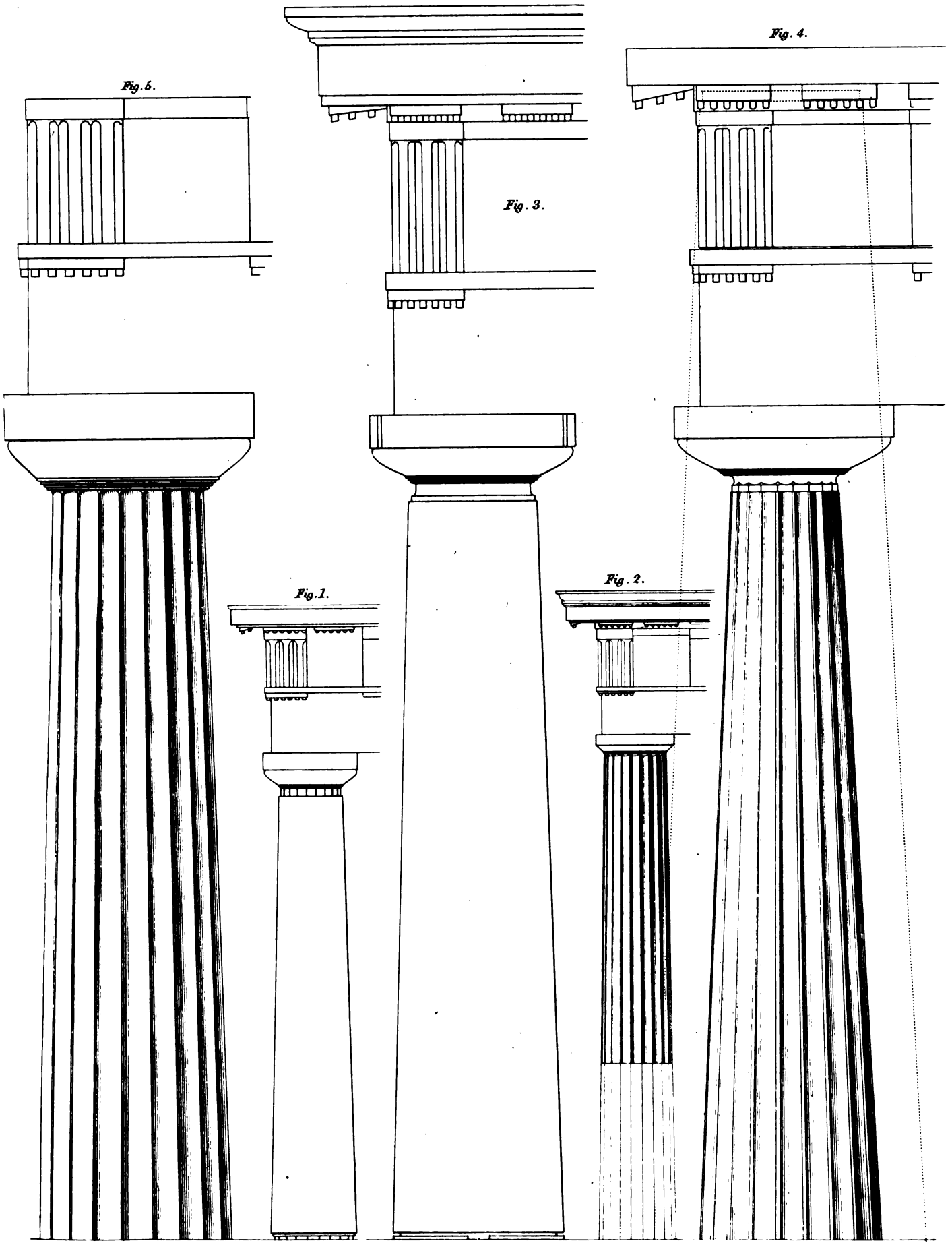


Published as the Act directs. May 2d 1802, by Longman & Rees, Paternoster Row.

Engraved by Wilson Lowry.

ARCHITECTURE.

DORIC.

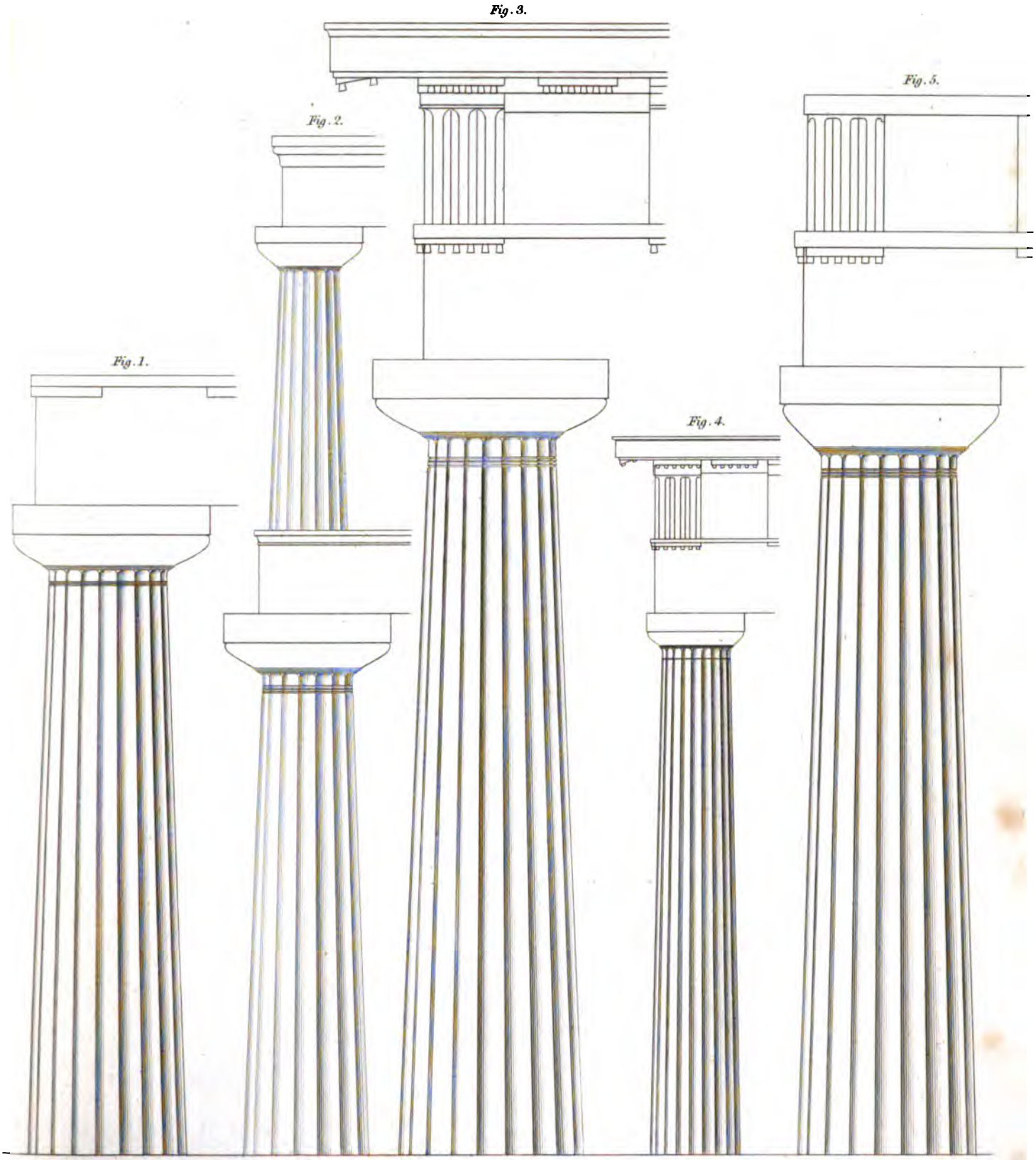


Temple at Selinus. Temple at Delos. Temple at Aegesta. Temple of Philip at Delos. Temple of Jupiter at Selinus.

Published as the Act directs 1800 by Longman Hurst Rees & Orme Paternoster Row

ARCHITECTURE.

DORIC.



Temple of Corinth.

Hypæthral Temple at Paestum.

Hypæthral Temple at Paestum.

Temple of Minerva at Sunium.

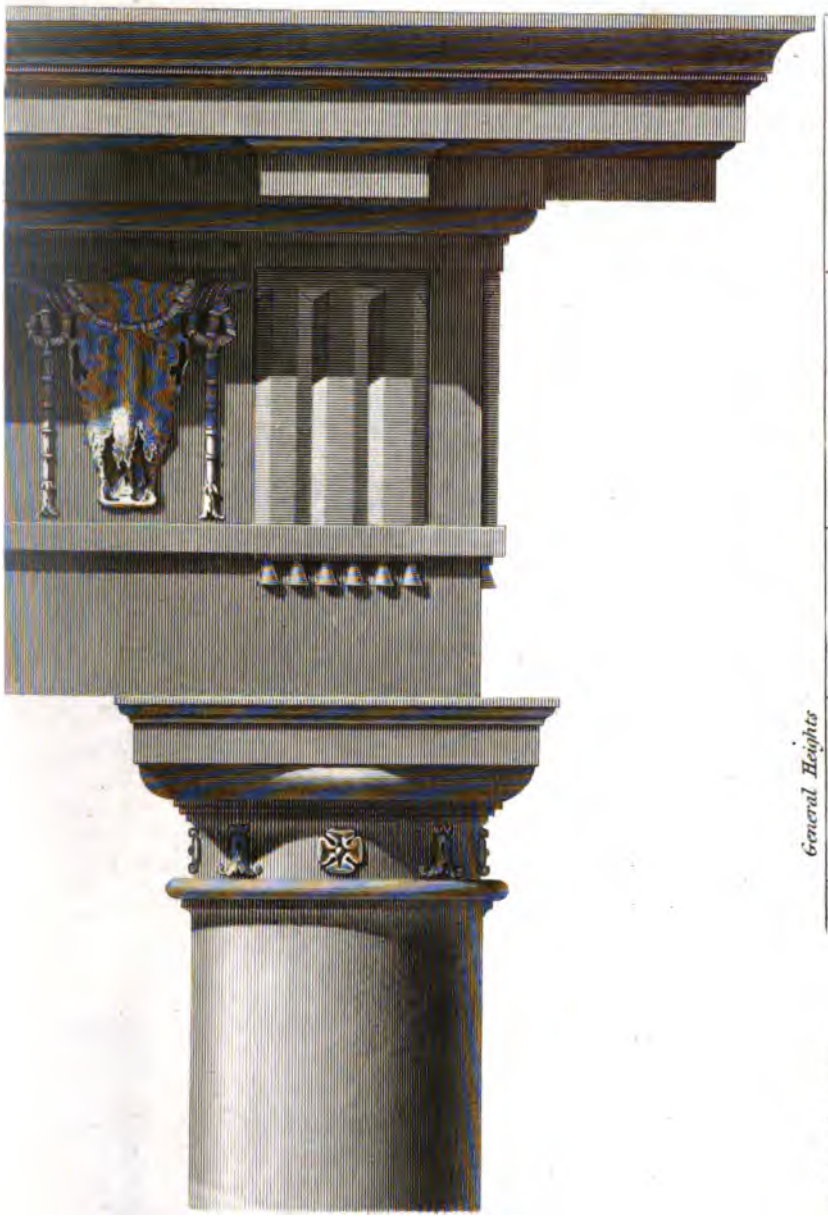
Temple of Minerva at Syracuse.

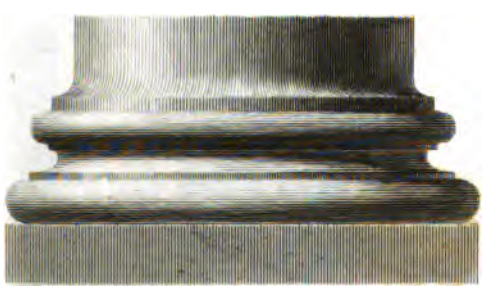
Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

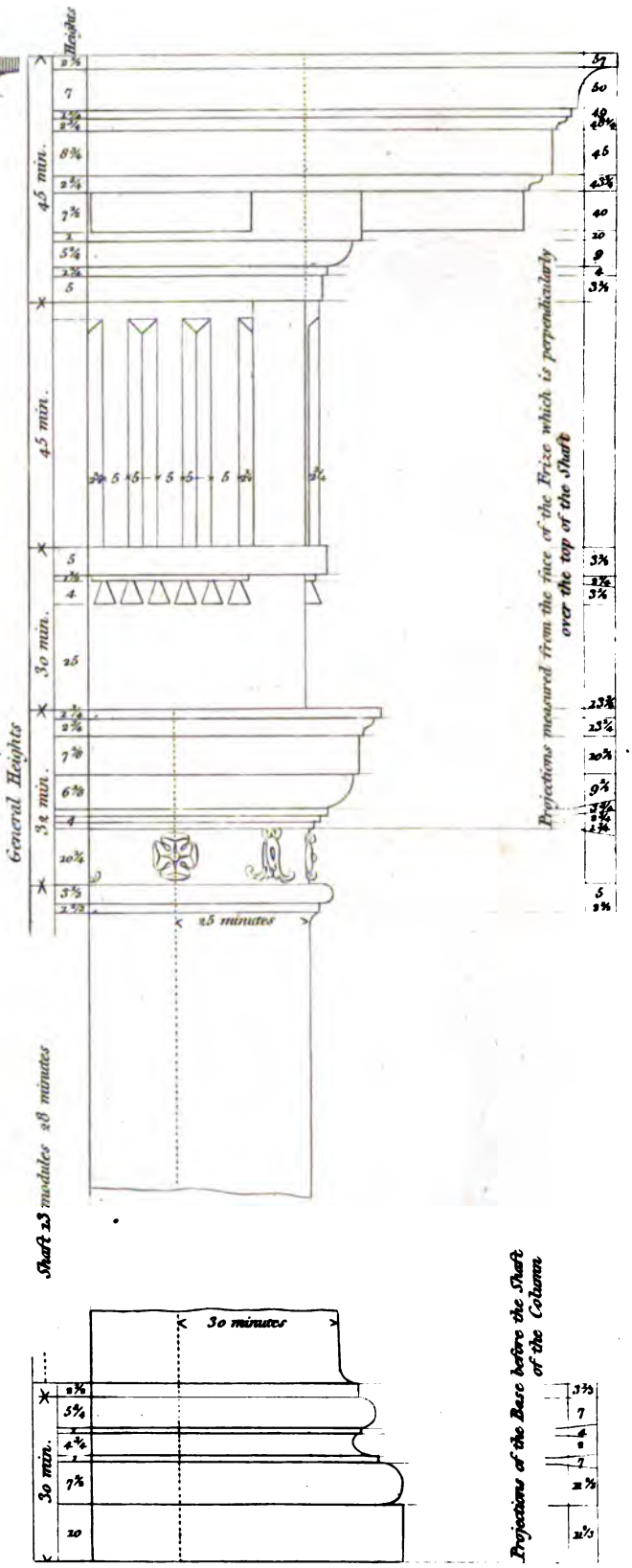
Engraved by Wilson Lowry.

ARCHITECTURE.

THE DORIC ORDER, ACCORDING TO SIR Wm CHAMBERS.





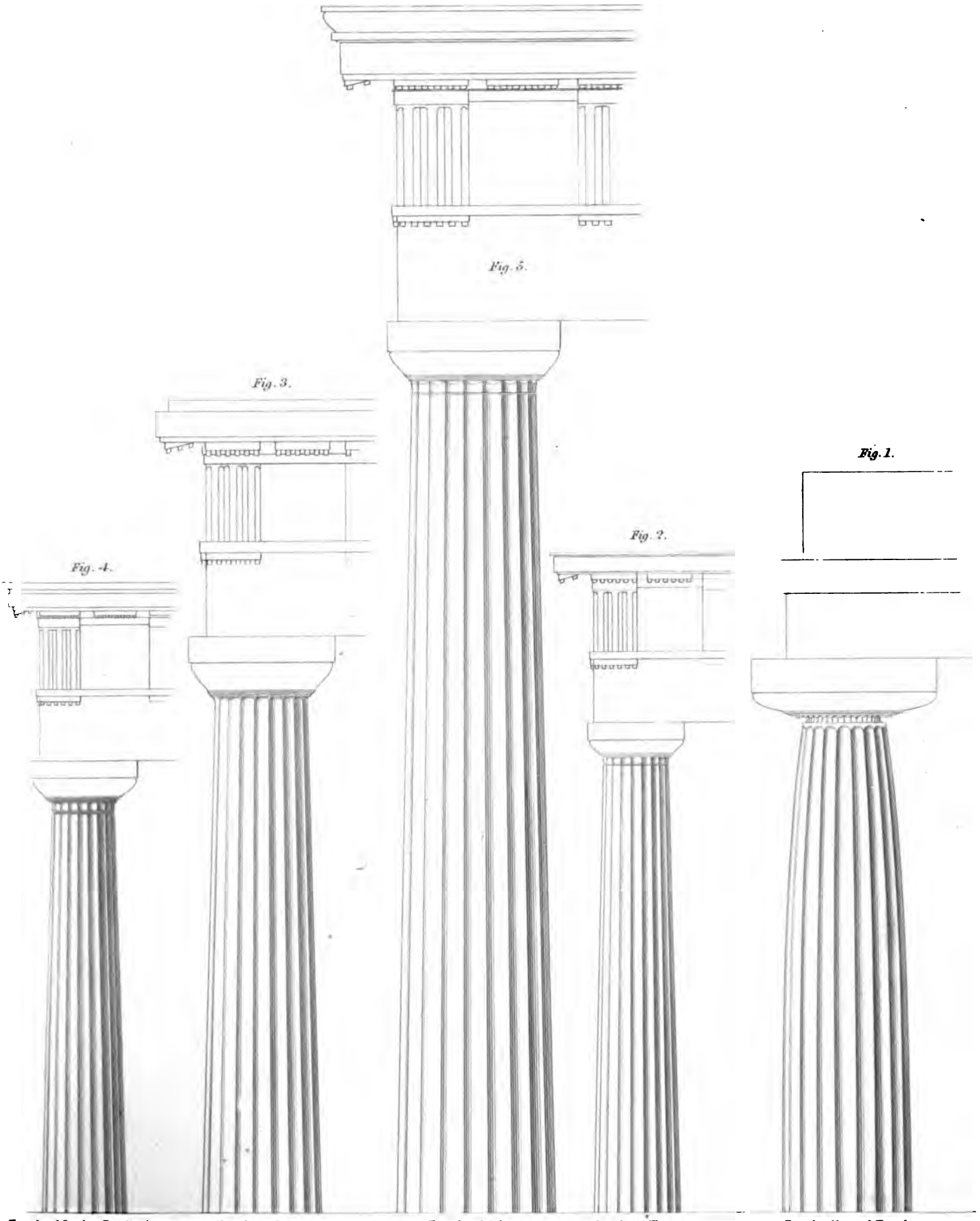


Published as the Act directs, Jan.y 2d 1802, by Longman & Rees, Paternoster Row.

Engraved by Wilson Lowry.

ARCHITECTURE.

DORIC.



Temple of Jupiter Panellenius in Aegina.

Temple of Concord at Agrigentum.

Temple of Minerva at Athens.

Temple of Theseus at Athens.

Pseudo dipteral Temple at Paestum.

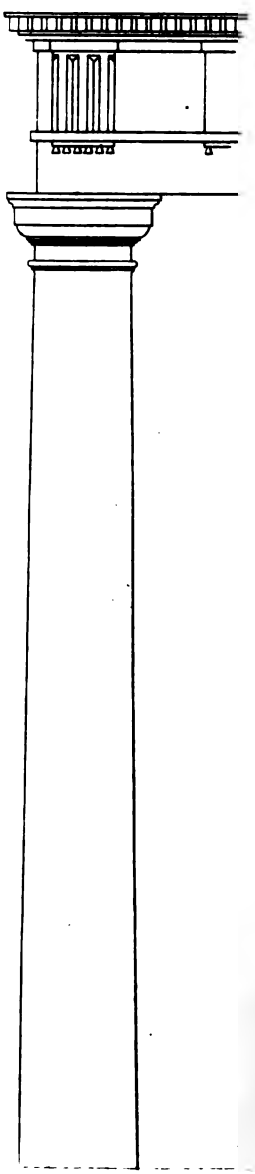
Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.

ARCHITECTURE.

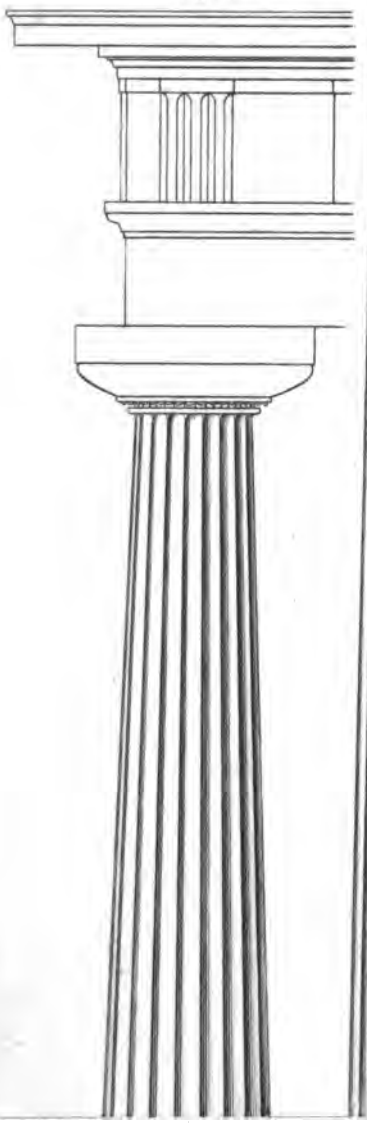
DORIC.

Fig. 1.



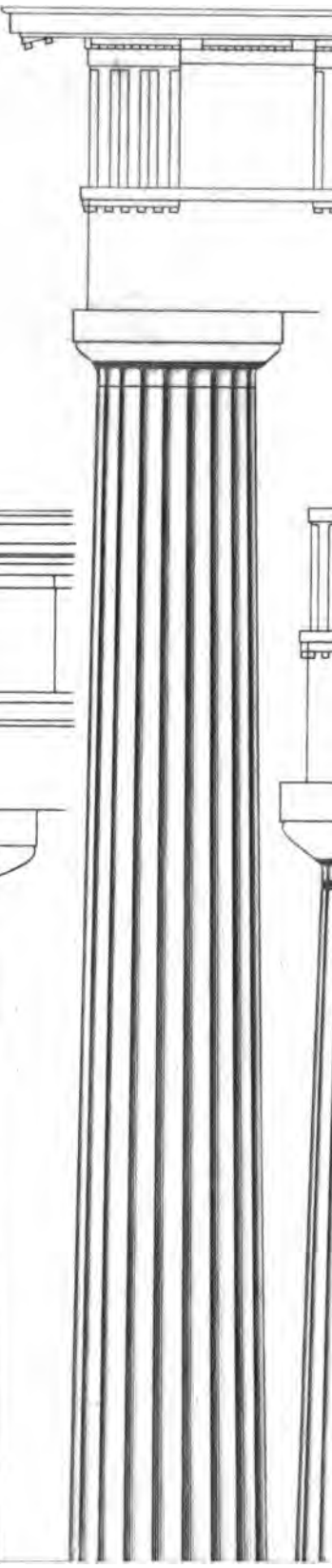
Theatre of Marcellus at Rome.

Fig. 2.



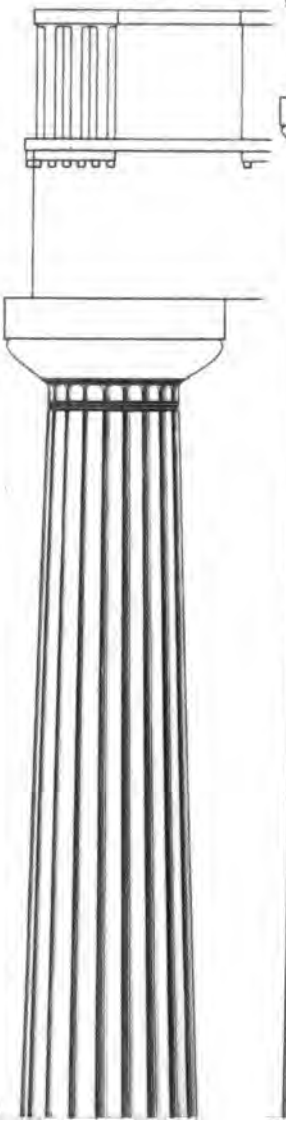
Hexastyle Temple at Paestum.

Fig. 3.



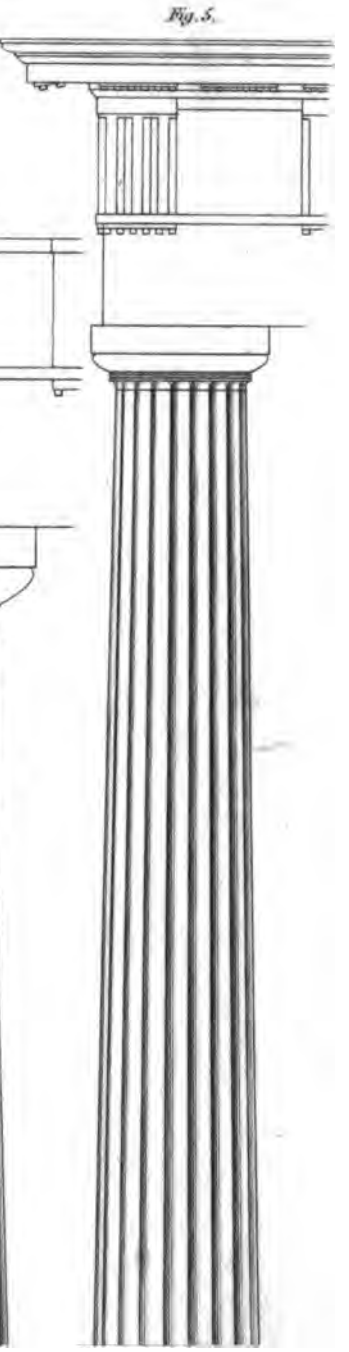
Temple of Jupiter Nemaeus between Argos & Corinth.

Fig. 4.



Temple of Juno Lucina at Agrigentum.

Fig. 5.



The Agora at Athens.

Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.

ARCHITECTURE.

DORIC ORDER.

Fig. 3. N°1.

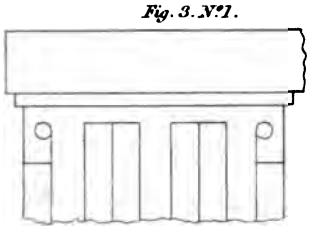


Fig. 3. N° 2.

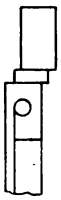


Fig. 2. N° 2.

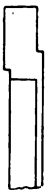


Fig. 2. N°1.

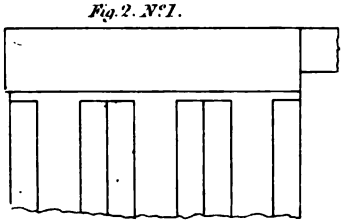


Fig. 1. N° 2.

Fig. 1. N°1.

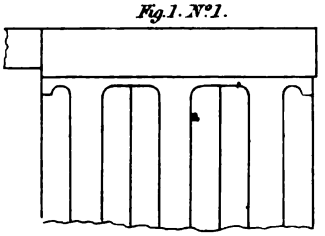


Fig. 6.

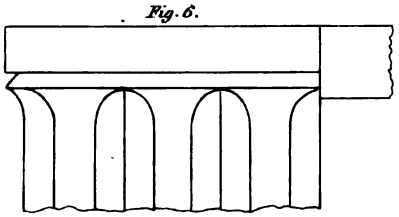


Fig. 5.

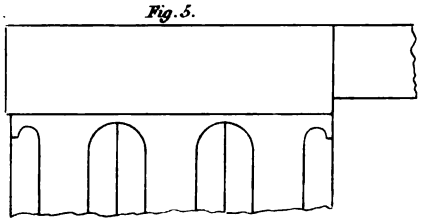
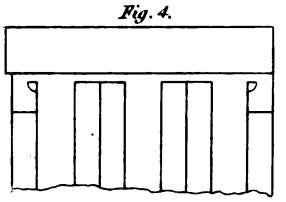


Fig. 4.



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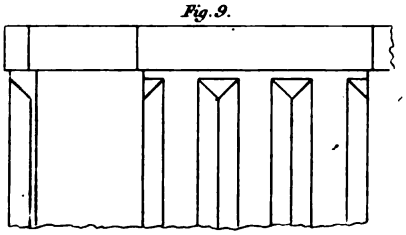

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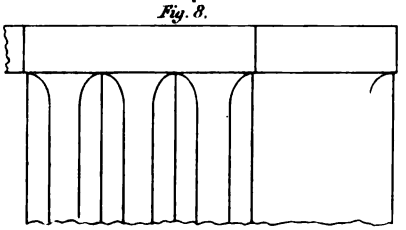


Fig. 7.

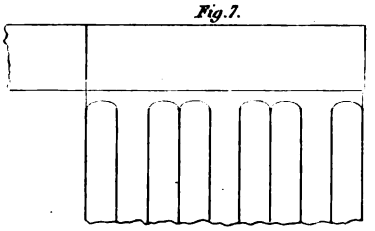


Fig. 13.

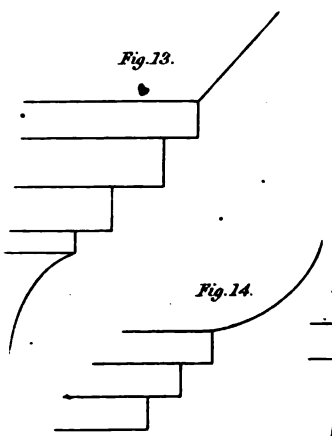


Fig. 14.

Fig. 12.

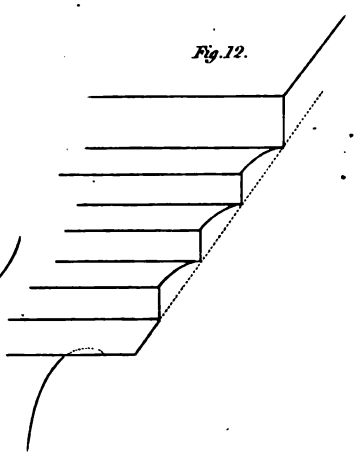


Fig. 11.

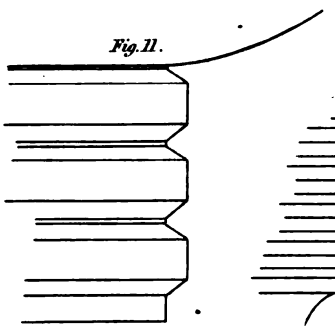
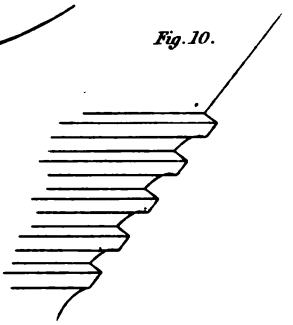


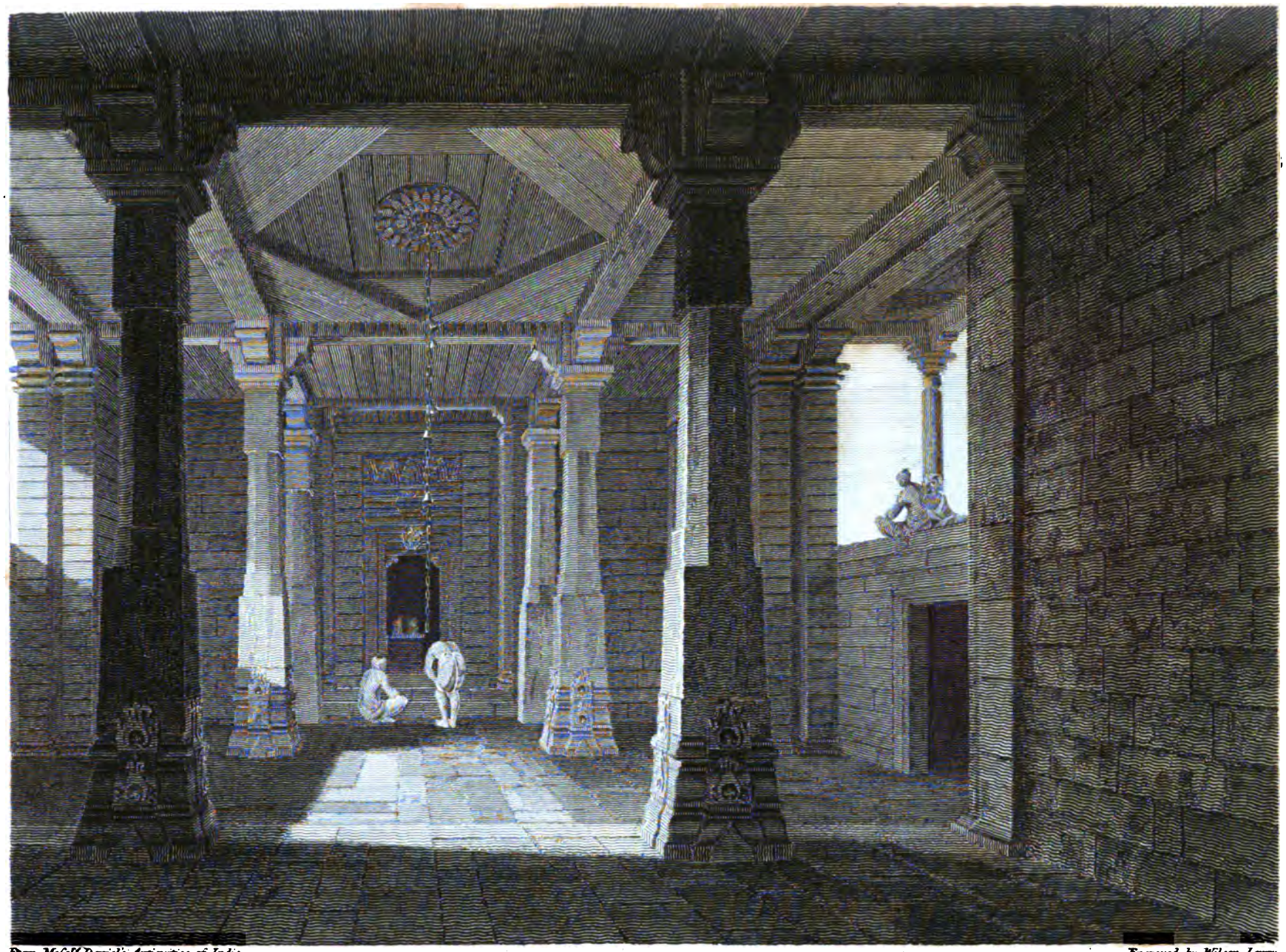
Fig. 10.



Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.

THE TEMPLE OF PANDROSUS AT ATHENS.



From Messrs. Daniell's Antiquities of India. *Engraved by Wilson Lowry.*

PART OF THE INTERIOR OF AN HINDOO TEMPLE, AT DEO, IN BAHAR.

Published as the Act directs, May 2d 1802, by Longman & Rees, Paternoster Row.

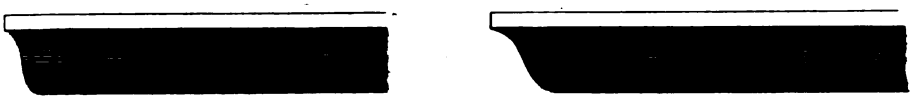
ARCHITECTURE.

MOULDINGS &c.

GRECIAN.

Fillet Listel Annulet or Square.

Astragal or Bead.



Cyma, Cyma Recta or Cymatium.

Listel and Fascia.

Echinus Ovolo or Quarter Round.

Echinus enriched.

Sections of the Echinus.

Inverted Cyma Talon or Ogee.

Talon enriched.

Astragal or Bead enriched.

Doric Annulets.

Cavetto or Hollow.

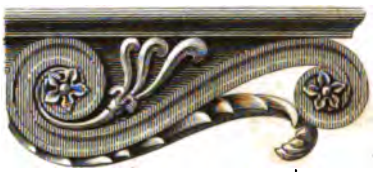
Torus.

ROMAN.

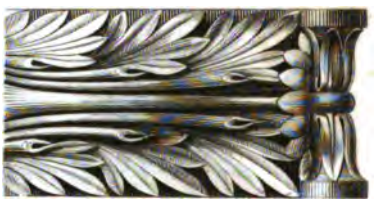
Scotia or Trochilos.

Cantaliver.

Corinthian Modillion.



Soffit of a Modillion.



Pannel between the Corinthian Modillions in the Soffit of the Corona.

Flower in the

Corinthian Abacus.

Published as the Act directs May 2nd 1802, by Longman & Rees, Paternoster Row.

Engraved by Wilson Lowry.

ARCHITECTURE.

JOINERY.

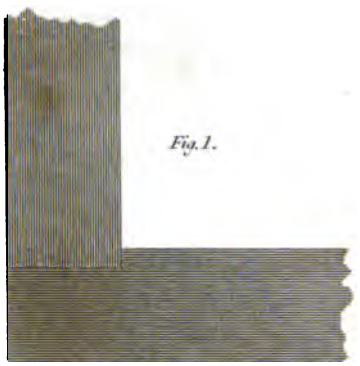


Fig. 1.

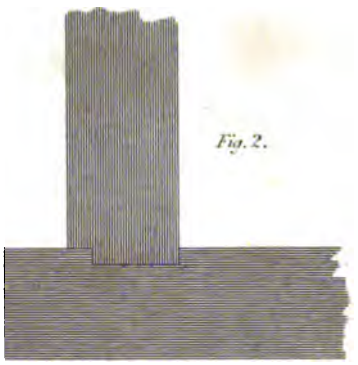


Fig. 2.

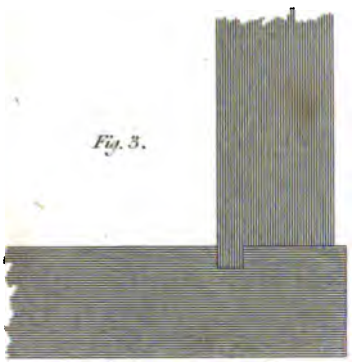


Fig. 3.

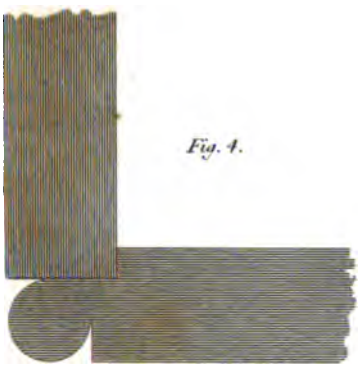


Fig. 4.

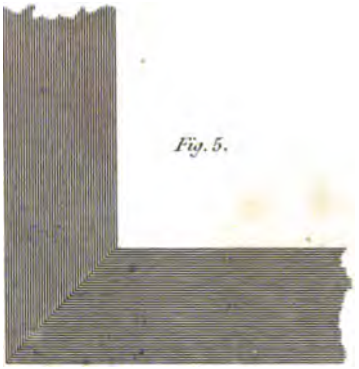


Fig. 5.

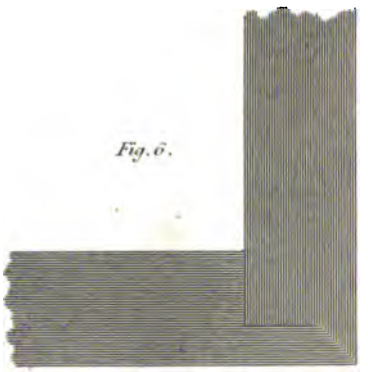


Fig. 6.

Fig. 7. N° 1.

Fig. 8. N° 1.

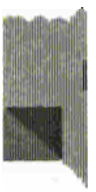


Fig. 8. N° 2.

N° 2. N° 3. N° 4.

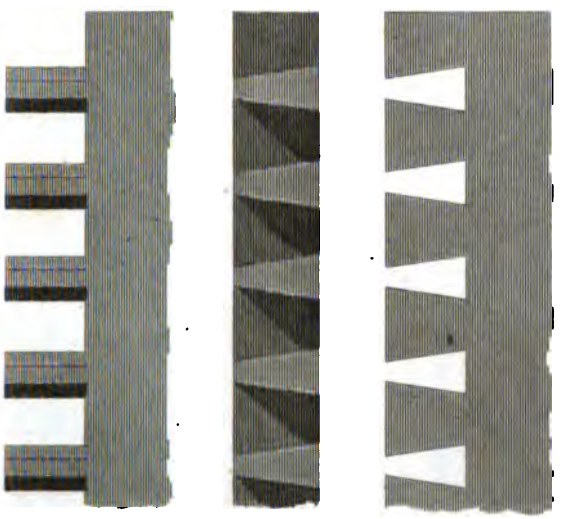


Fig. 8. N° 3.

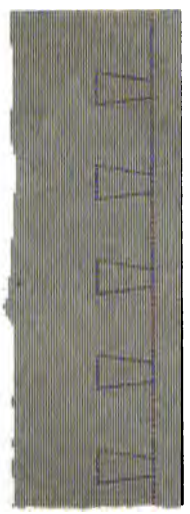
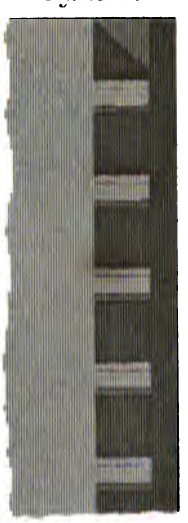


Fig. 8. N° 4.

Fig. 8. N° 5.



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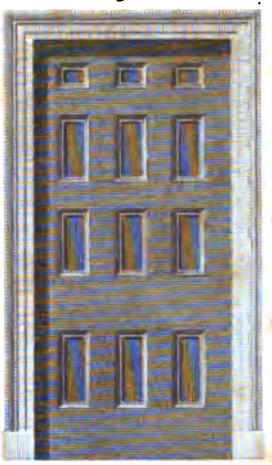
Engraved by W. Lowry.

ARCHITECTURE.

JOINERY.

Fig. 1.

Fig. 2.



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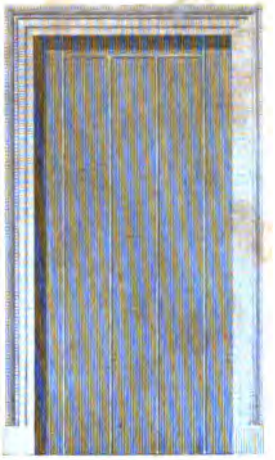


Fig. 4.

Fig. 5.

Fig. 6.

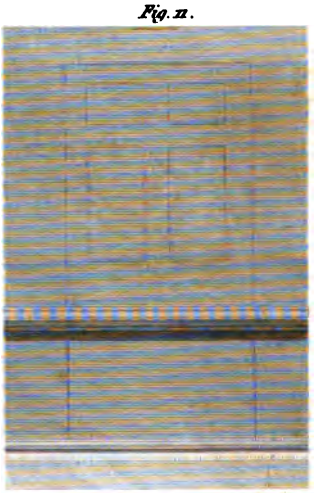
Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.



Published as the Act directs, 1810, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4. N°1.

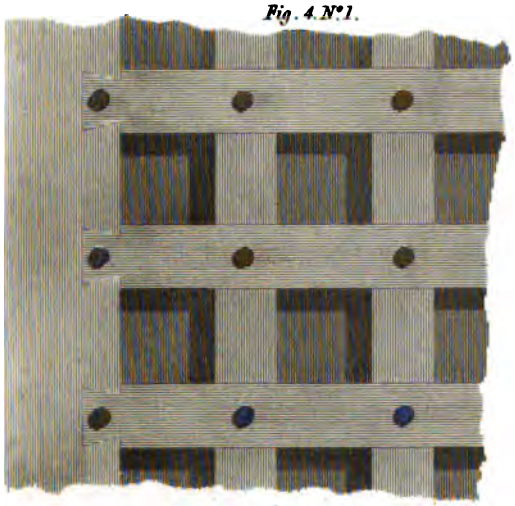


Fig. 4. N°2.

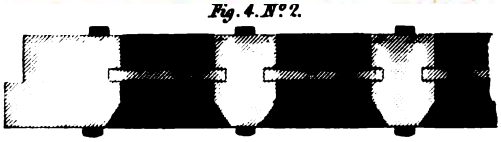
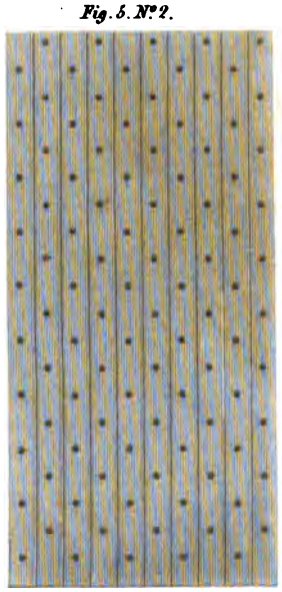


Fig. 5. N°1.

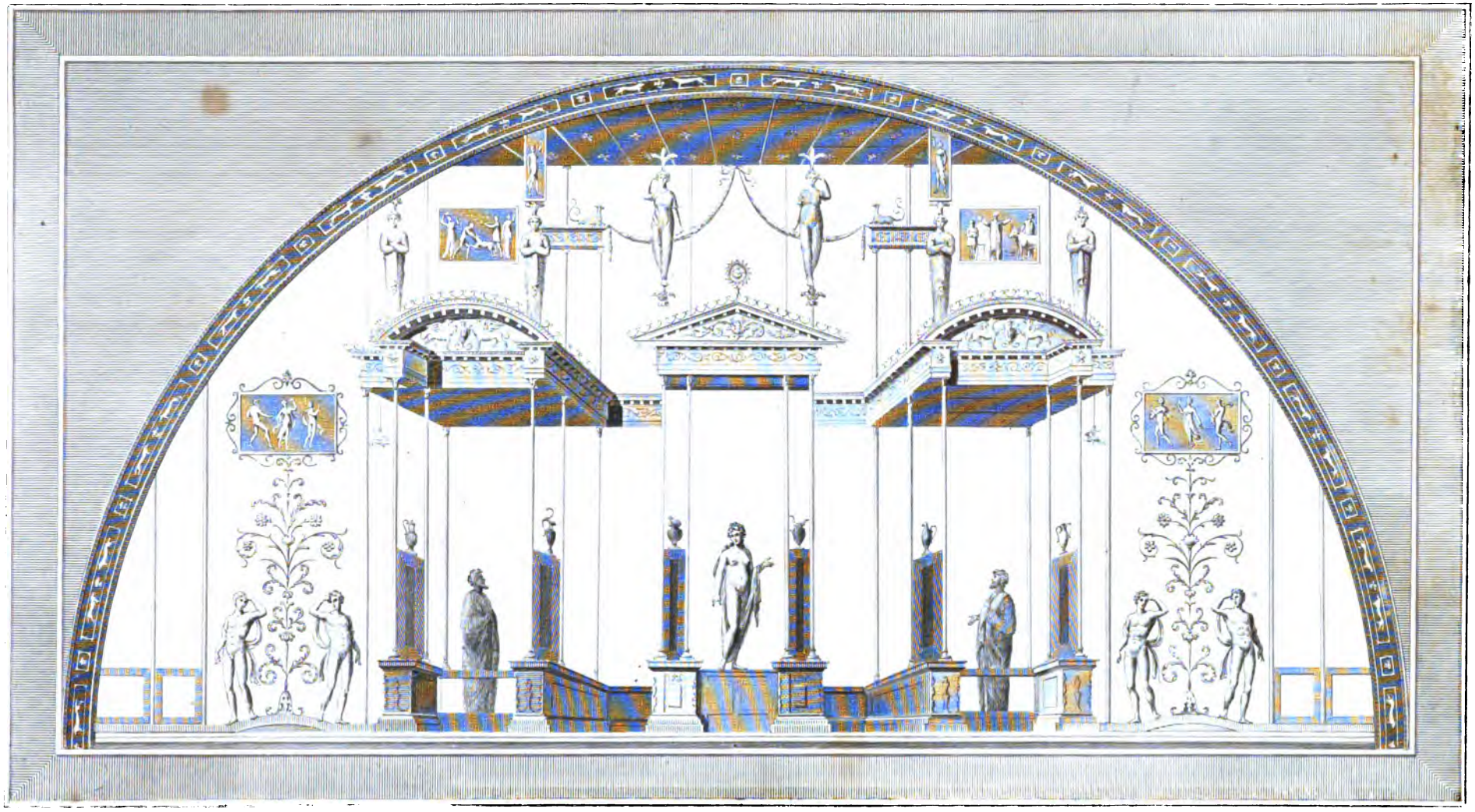
Fig. 5. N°2.



Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson

PAINTING FROM THE BATHS OF TITUS.



Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

J. Bolle sculp.

EGYPTIAN CAPITALS.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 9.

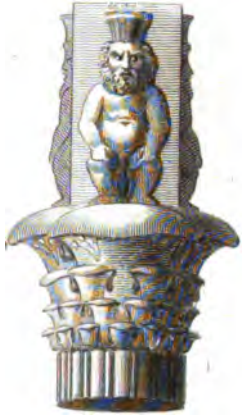


Fig. 10. FRAGMENTS.

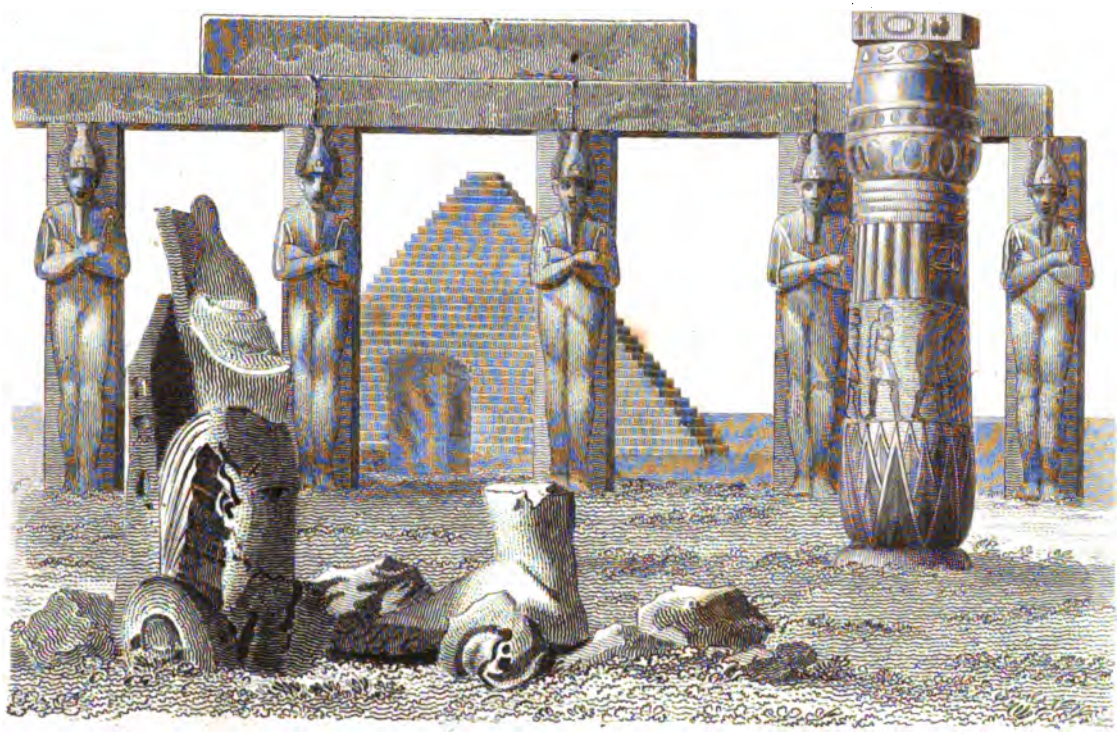


Fig. 8.

Fig. 6.

Fig. 7.

Published as the Act directs, Dec.r 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Ja.s Lewis Sculp.

CORINTHIAN AND COMPOSITE CAPITALS.

Fig. 1.

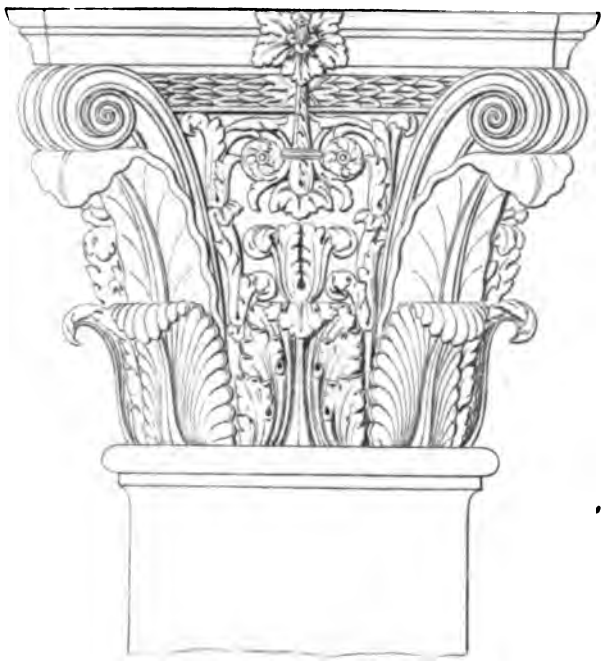


Fig. 2.

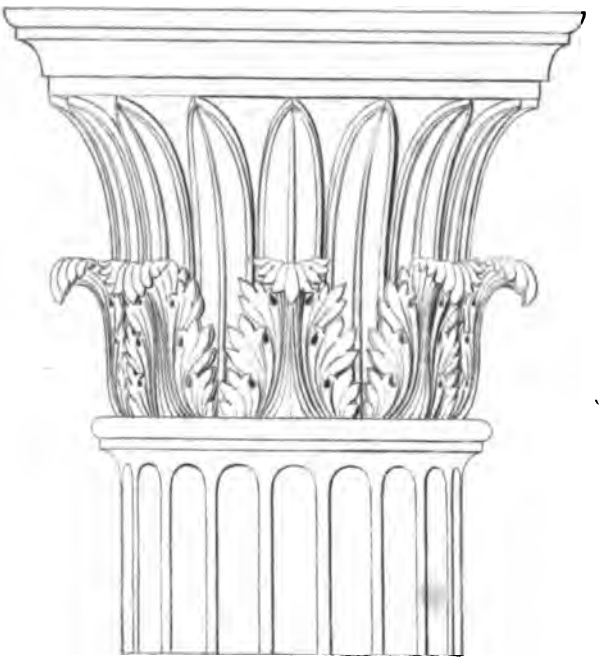


Fig. 3.

Fig. 4.

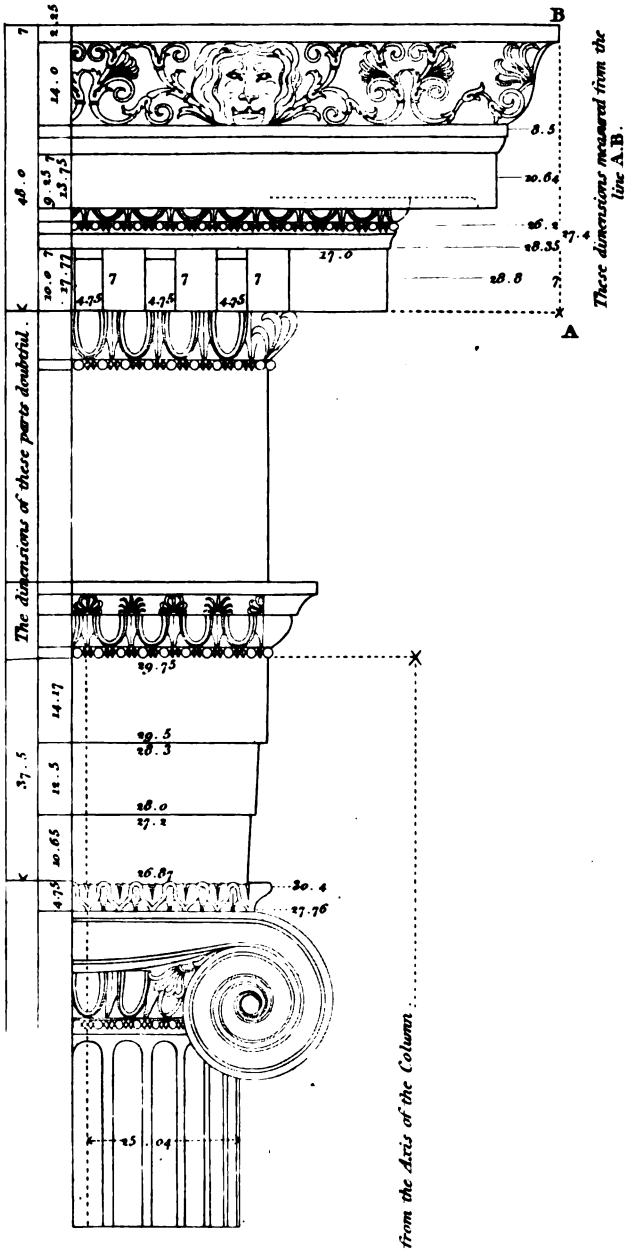
Published as the Act directs, 1809, by Longman, Hurst, Rees & Orme, Paternoster Row.

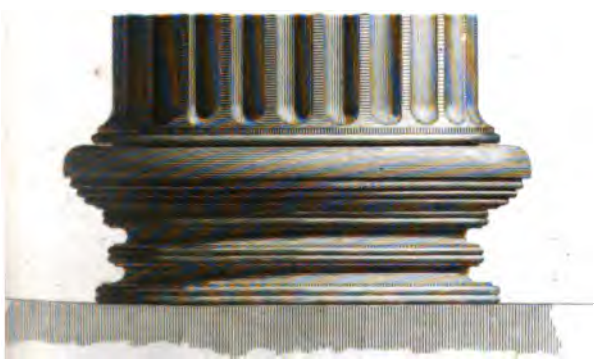
Engraved by Wilson Lowry.

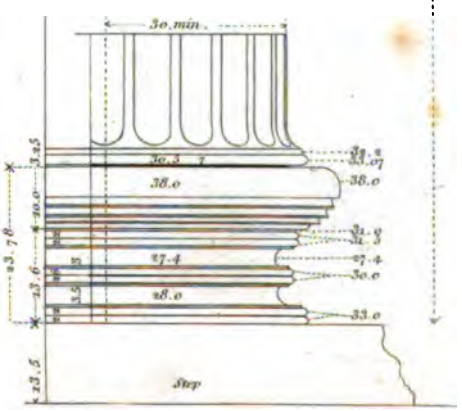
ARCHITECTURE.

FROM THE TEMPLE OF MINERVA POLIAS, AT PRIENE.

IONIC ORDER.

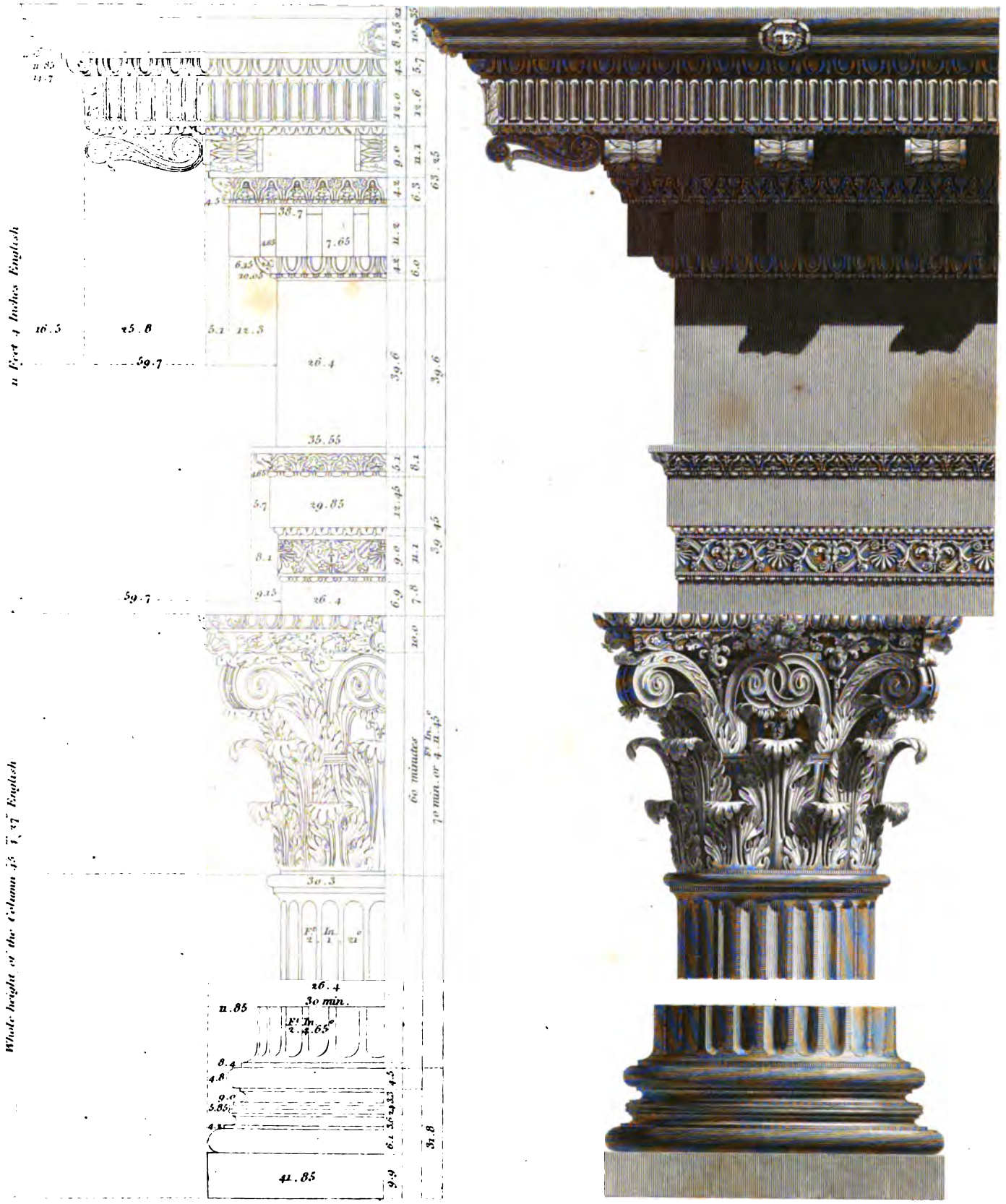






ARCHITECTURE.

FROM THE TEMPLE OF JUPITER STATOR IN ROME.

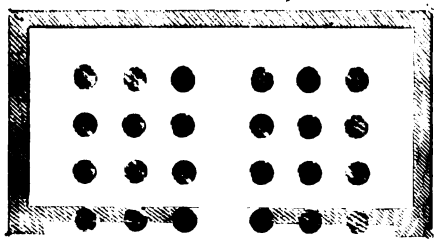


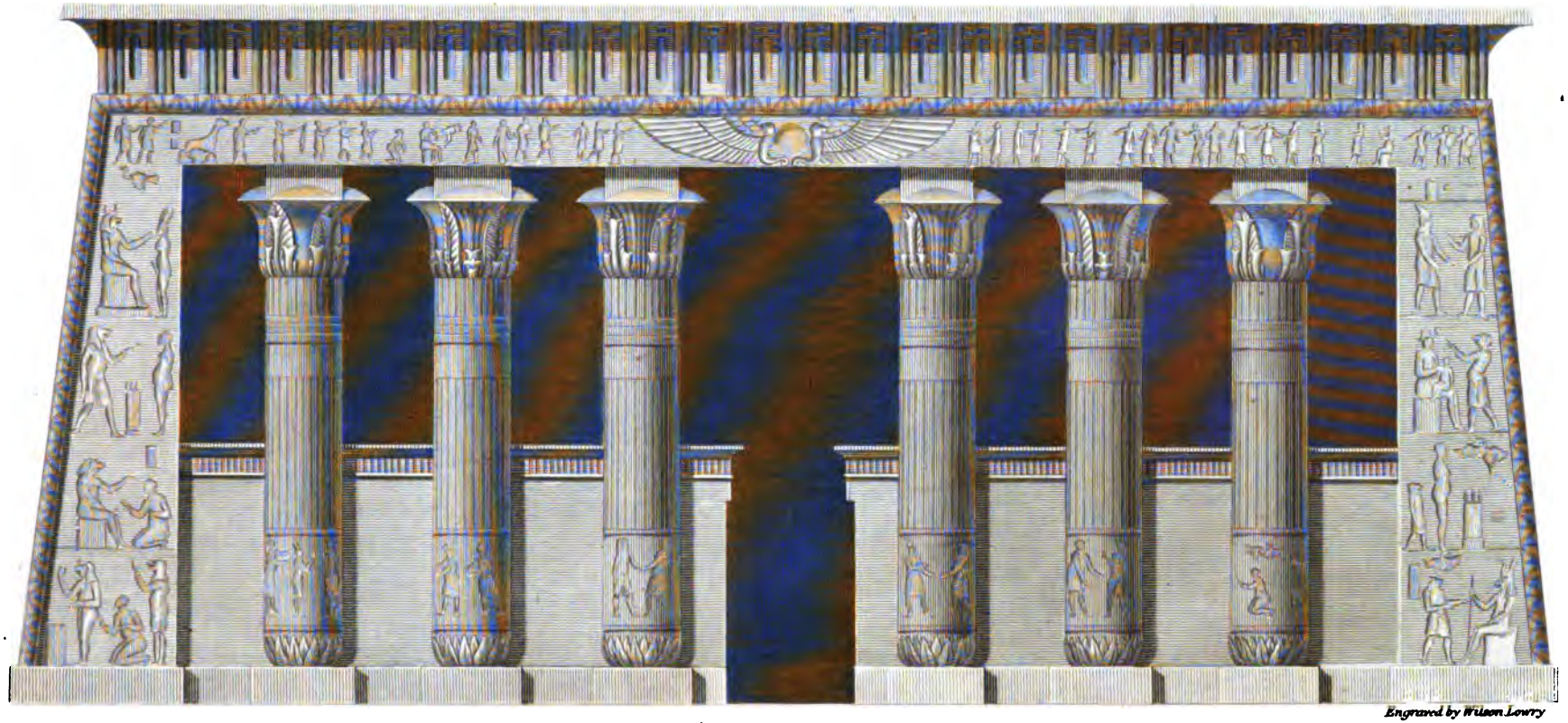
THE CORINTHIAN ORDER.

The Entablature and Capital drawn by Wilson Lowry from a Cast in the Poſſeſſion of John Soane Esq.r R.A.
The Dimensions reduced to Minutes and English feet from Palladio.

Published as the Act directs. Sept.r 2. 1802. by Longman & Rees. Paternoster Row.

Engraved by Wilson Lowry





Engraved by Wilson Lowry

PLAN AND ELEVATION OF A PORTICO AT LATOPOLIS.

Published as the Act directs, 1808, by Longman, Hurst, Rees & Orme, Paternoster Row.

From Stewart

Engraved by Wilson Lowry.

EASTERN PORTICO OF THE PARTHENON ON THE ACROPOLIS OF ATHENS.

Published as the Act directs Aug.st 1.1803, by Longman & Rees, Paternoster Row.

ARCHITECTURE.

BRIDGES.

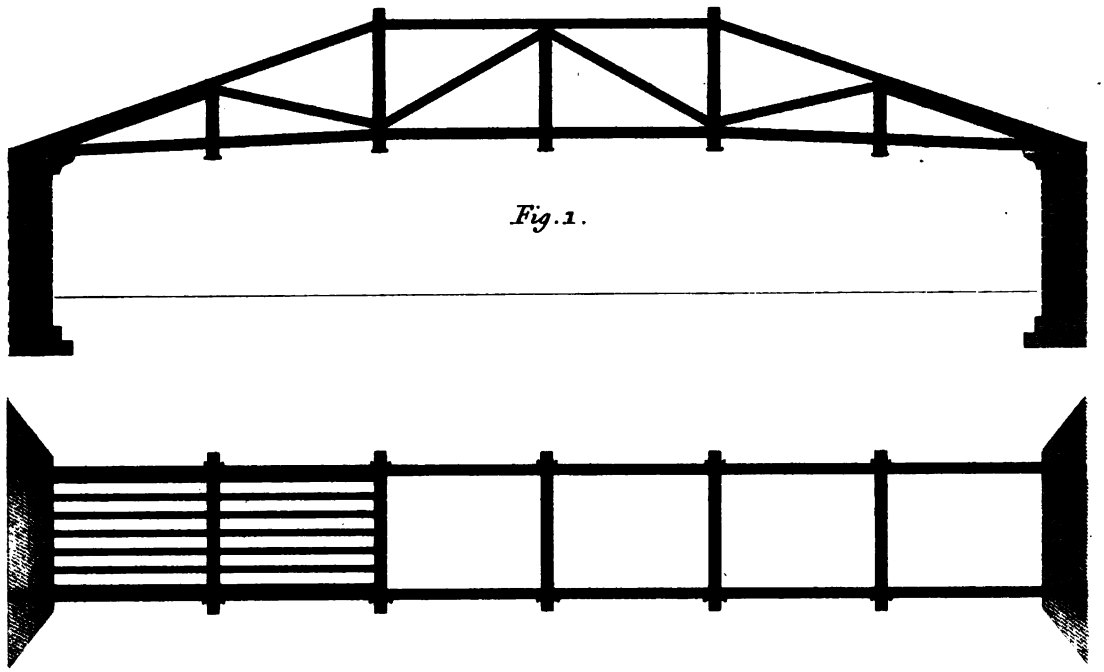


Fig. 1.

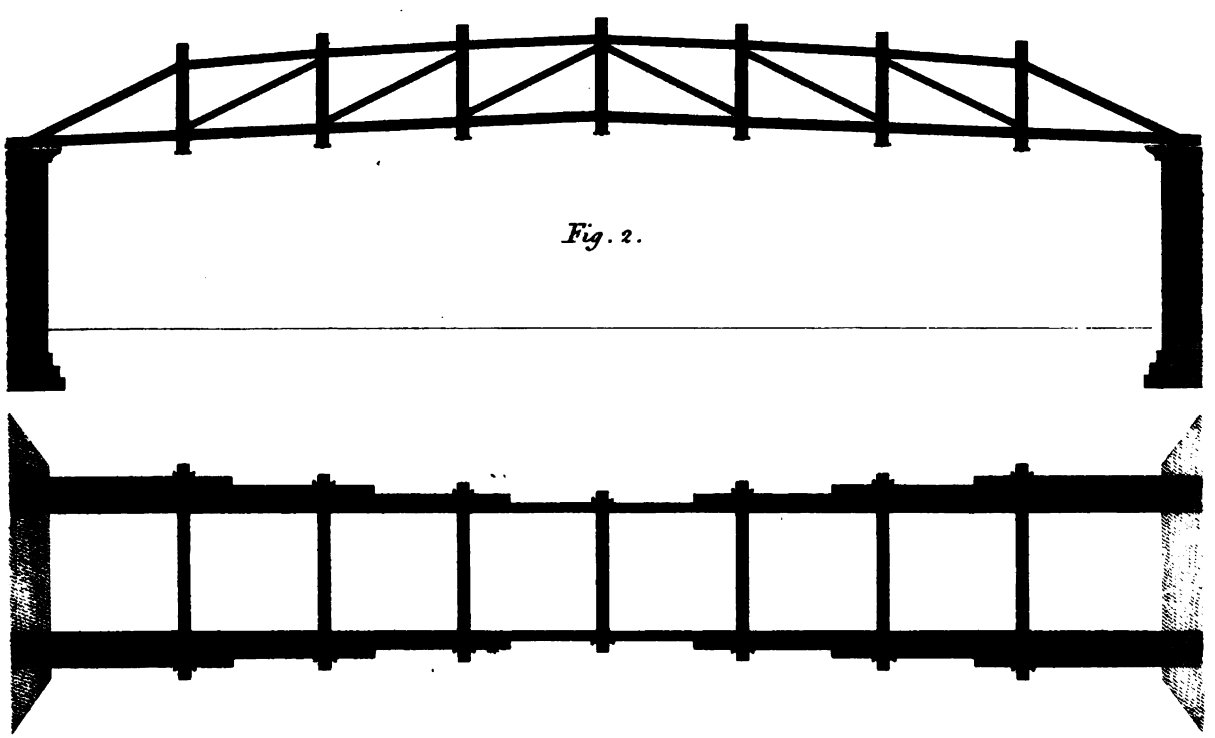


Fig. 2.

Published as the Act directs, Sept.r 1.st 1806, by Longman, Hurst, Rees, & Orme, Paternoster Row.

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BRIDGES.

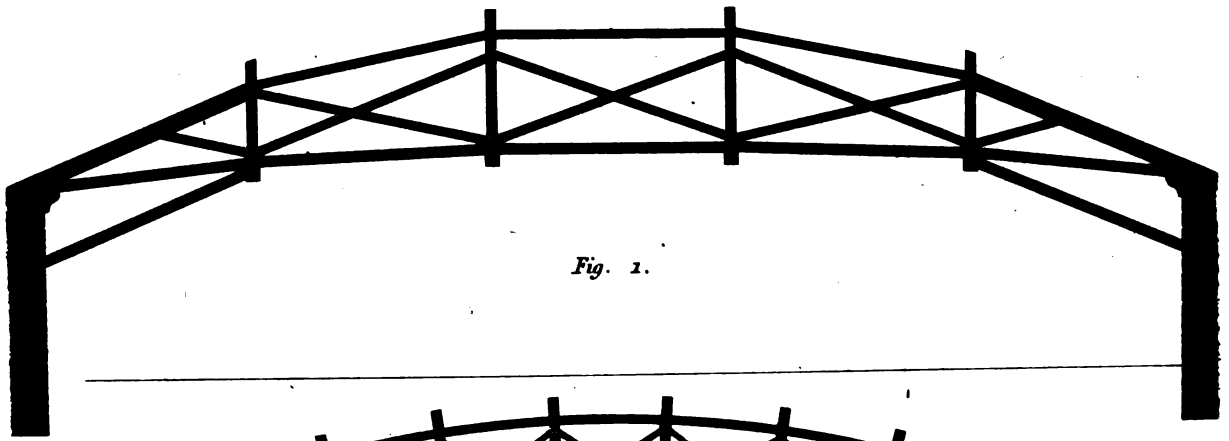


Fig. 1.

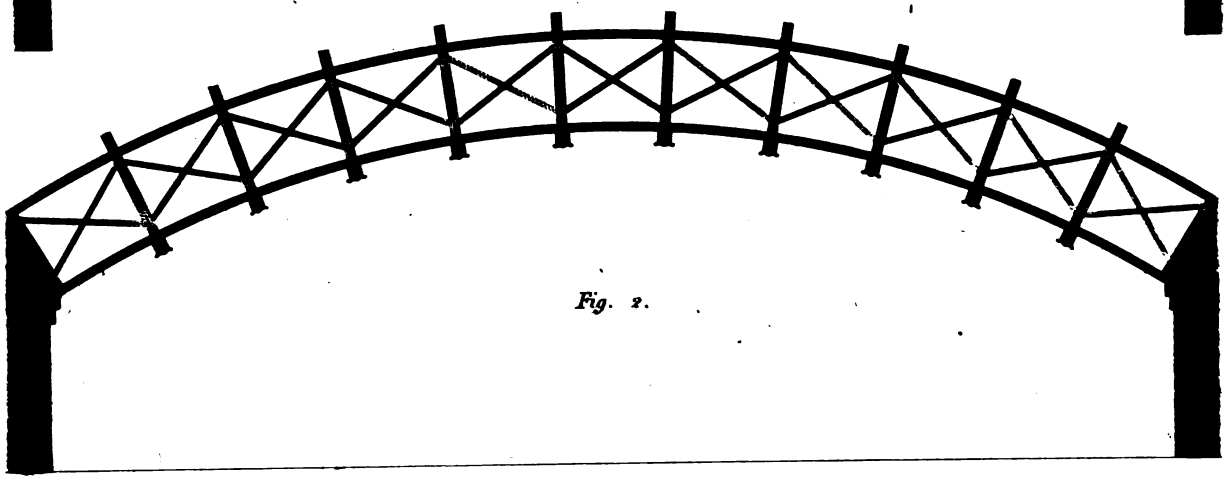
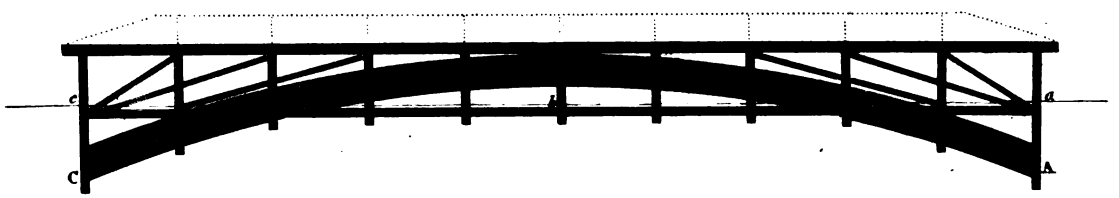


Fig. 2.

Fig. 3.



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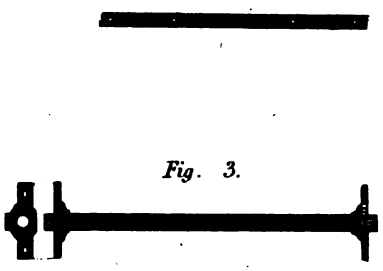

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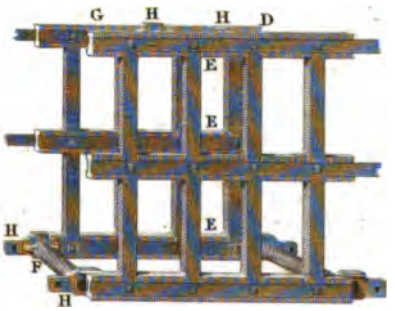
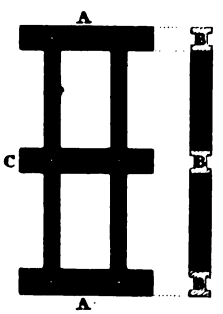


Fig. 4.

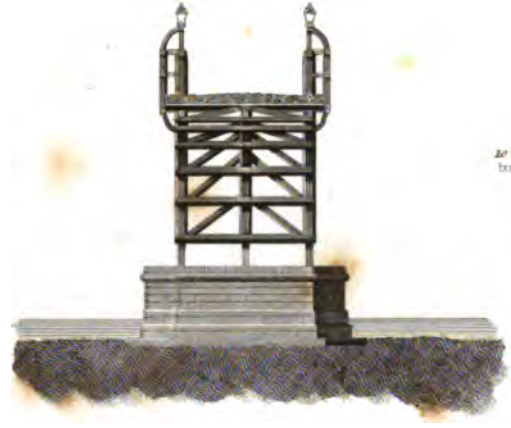


Published as the Act directs, 1808, by Longman, Hurst, Rees and Orme, Paternoster Row. *Engraved by Wilson Lowry.*

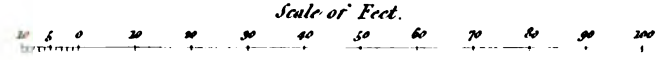
WOODEN BRIDGE
erected over the River Thames, at WALTON in SURRY.

Elevation.

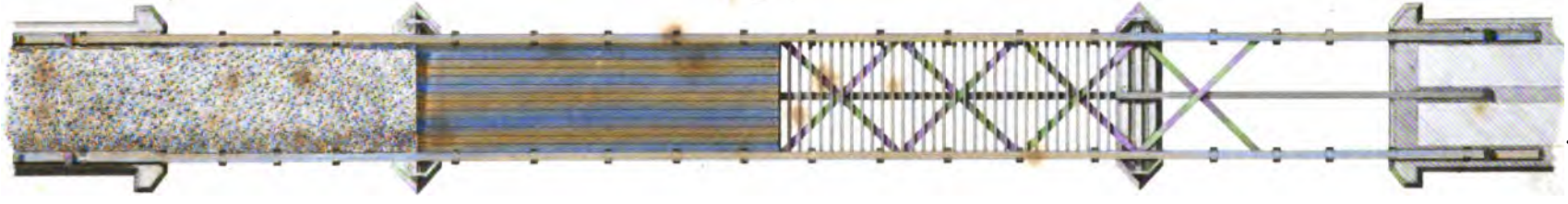
Cross Section.



Scale of Feet.



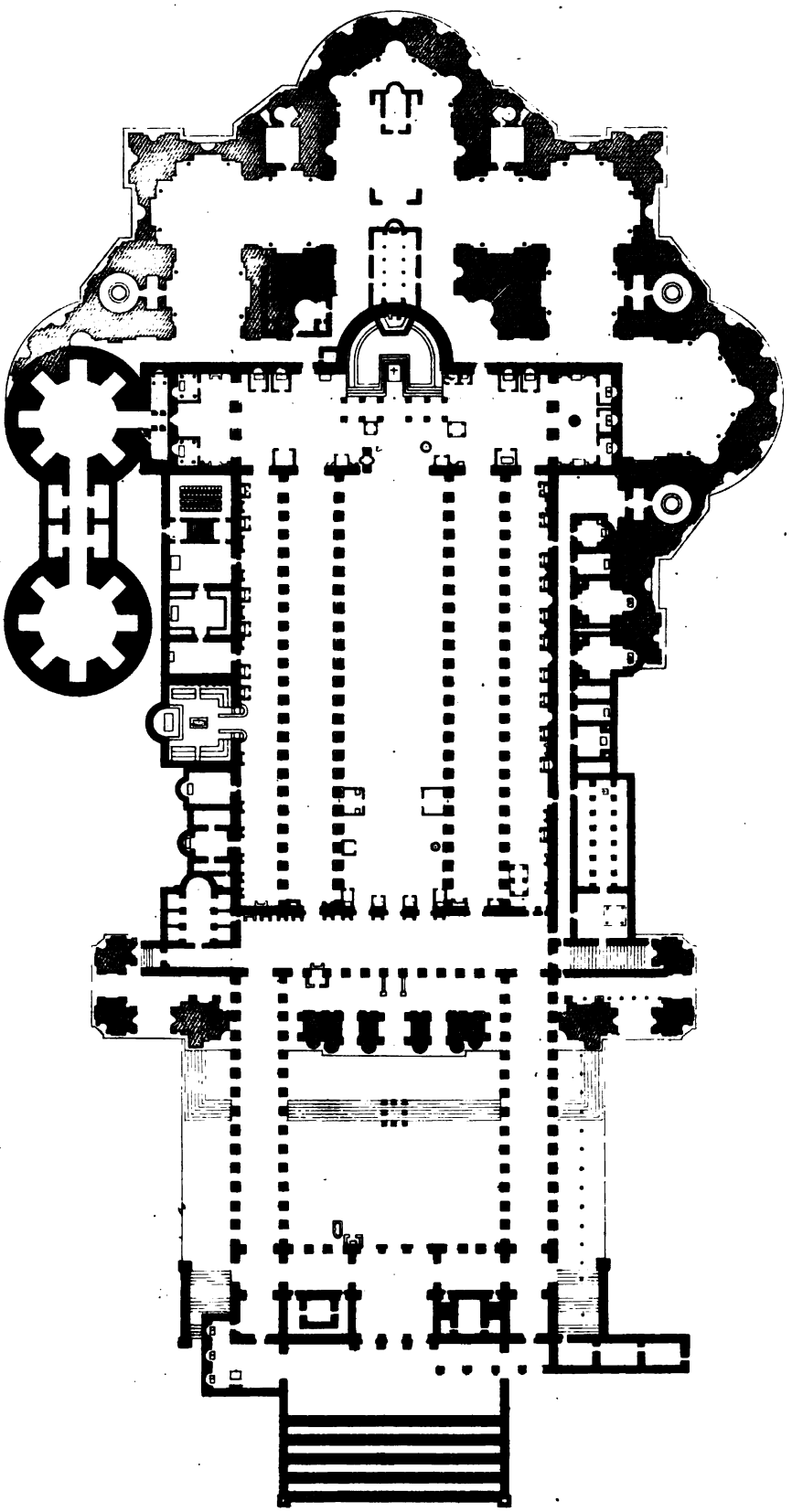
Plan.



J. Farey, delin. Published as the Act directs, 1819, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry Sc.

BASILICA.

Incorporated Plans of the old Basilica of S.t Peter's and of the modern S.t Peter's of the Vatican from Costaguti.



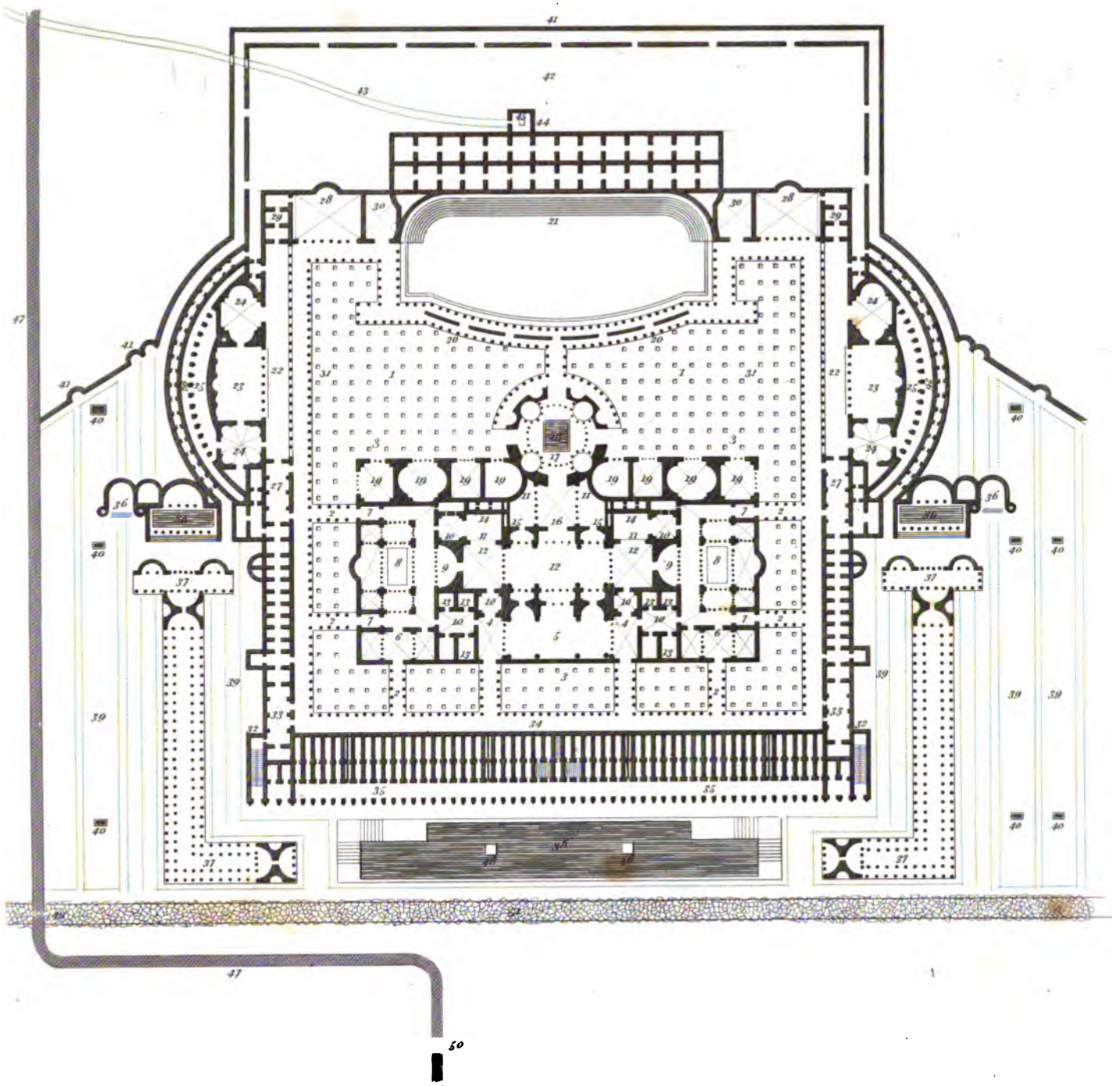
Published as the Act directs, 1820. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

ARCHITECTURE.

BATHS OF CARACALLA.

PLATE XXXVI & XXXVII.

Plan



Section

Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry sc.

ARCHITECTURE.

BRIDGE.

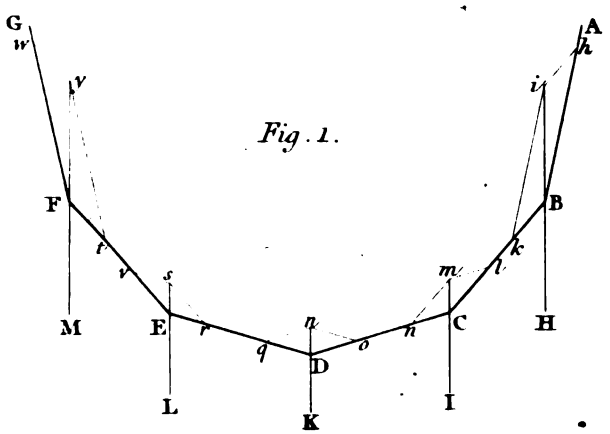


Fig. 1.

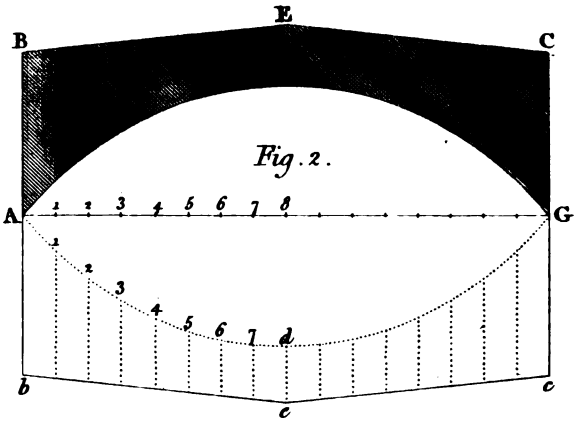


Fig. 2.

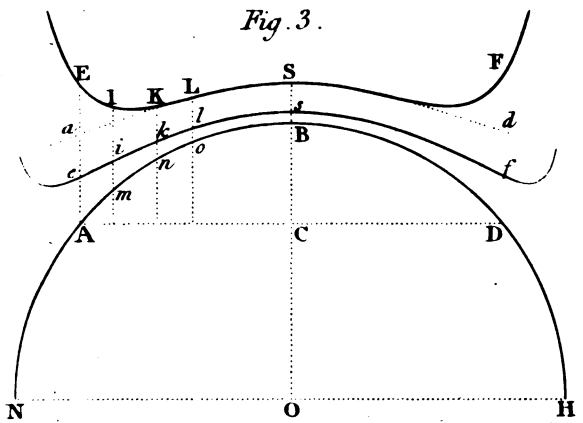


Fig. 3.

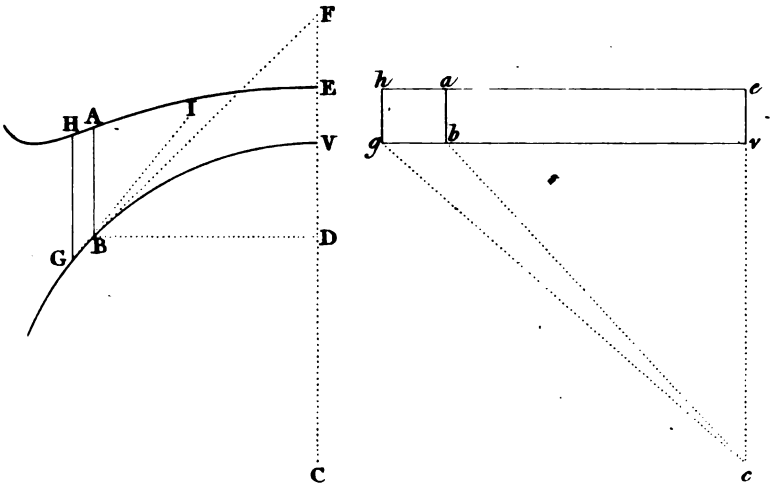
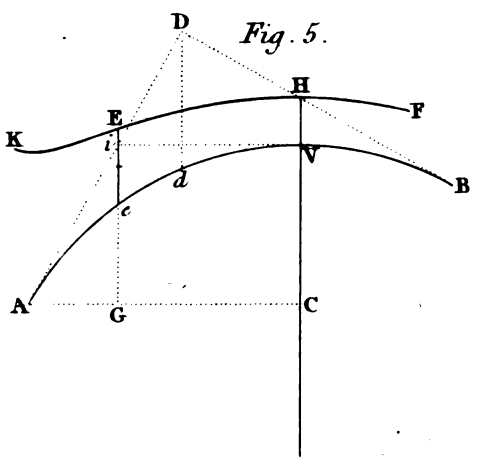


Fig. 4.



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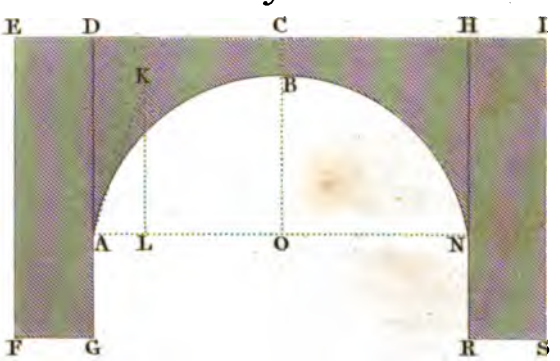

Fig. 6.

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ARCHITECTURE

OBLIQUE ARCH

Fig. 1.

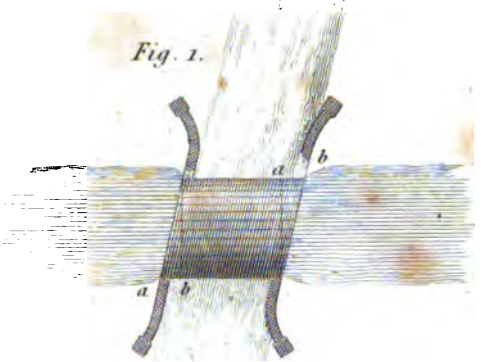


Fig. 2.

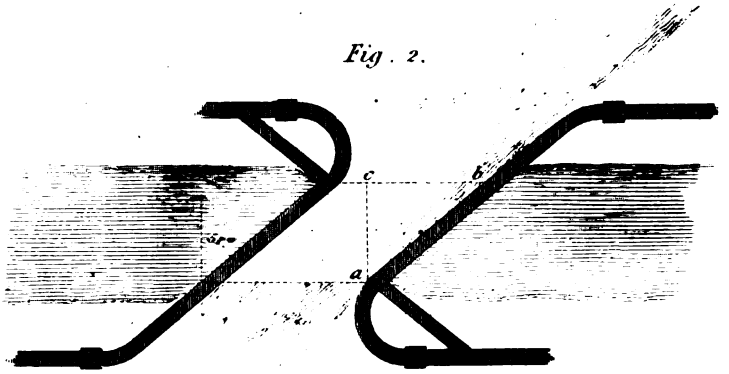
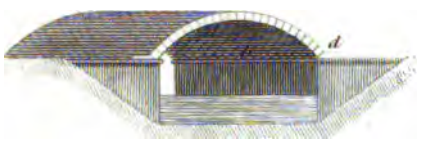


Fig. 3.



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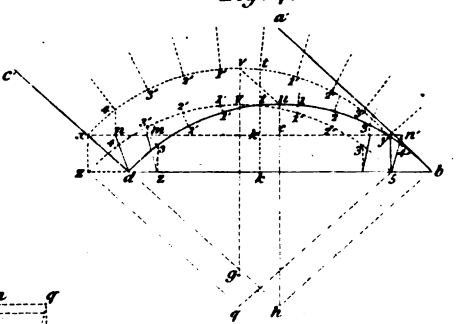

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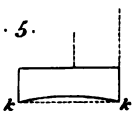

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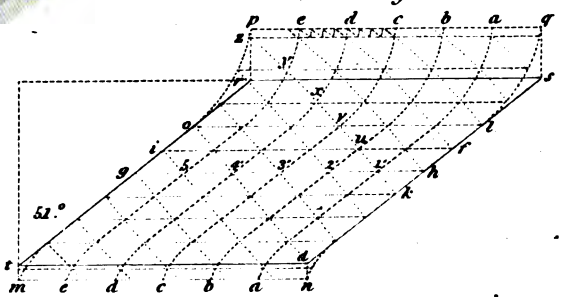

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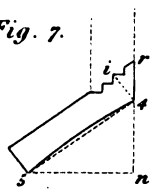

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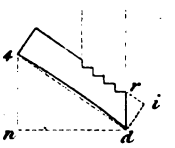


Fig. 9.

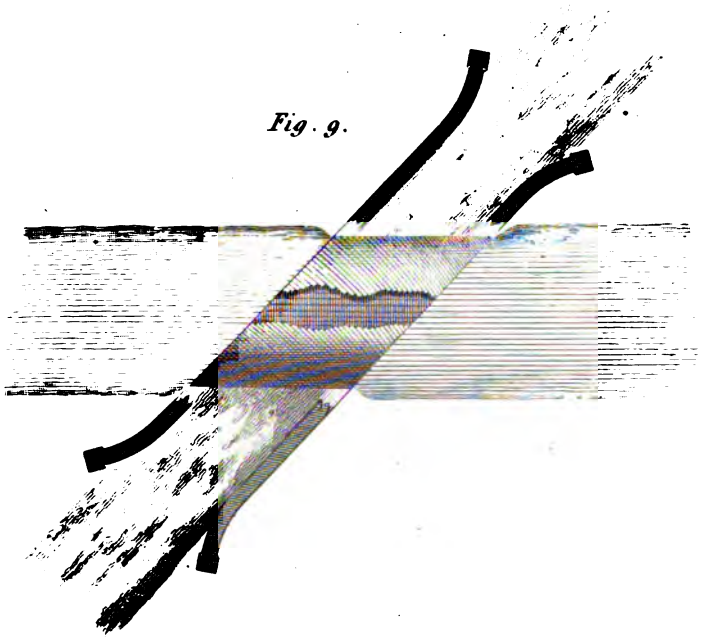
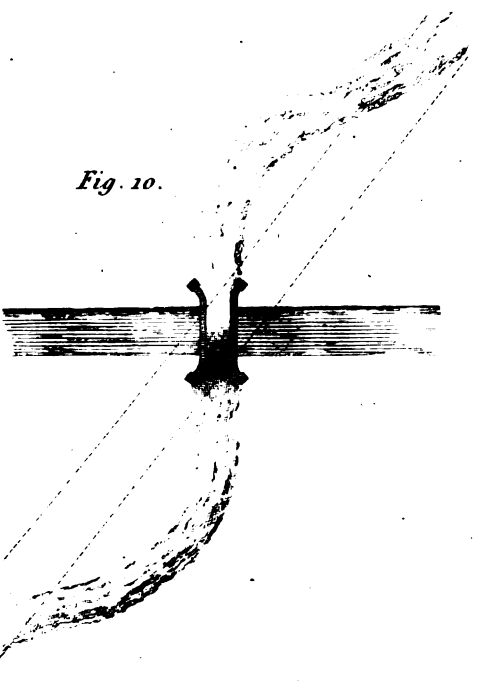


Fig. 10.



Carey Jun.r delin. Published as the Act directs, 1814, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Engraved by W. Lowry.

Drawn by J. Flaxman Esqr R.A.

WEST DOOR OF THE CATHEDRAL OF CARRARA,

Late in the Duchy of Maſsa Carrara in Italy, built about the year 1151 or soon after according to the Church Mſs.

ARCHITECTURE.

CARPENTRY.

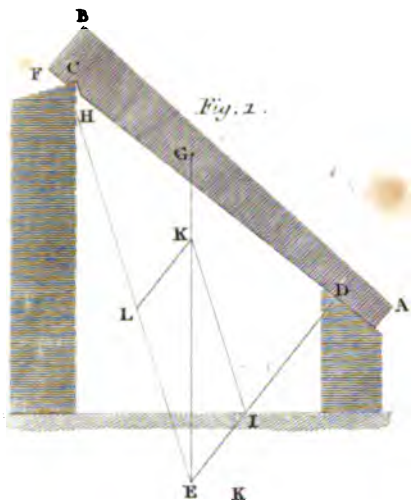


Fig. 1.

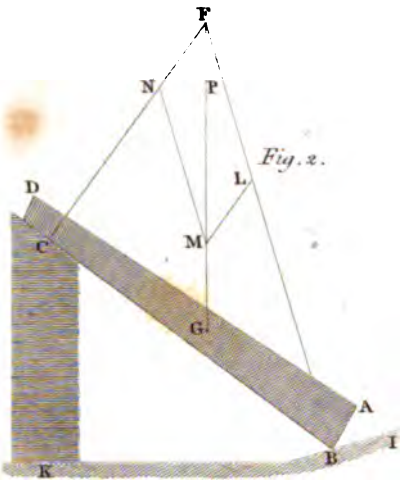


Fig. 2.

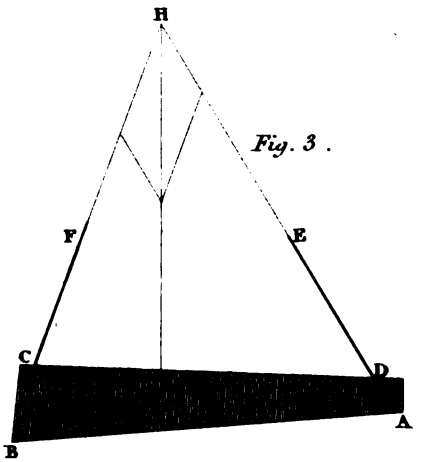


Fig. 3.

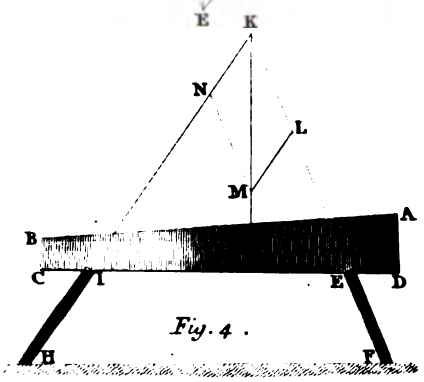


Fig. 4.

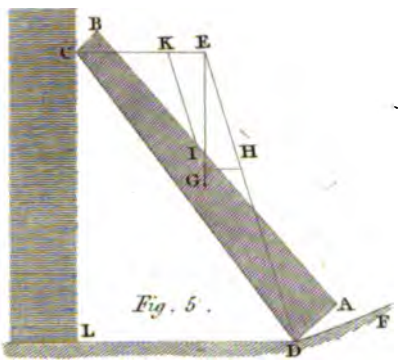
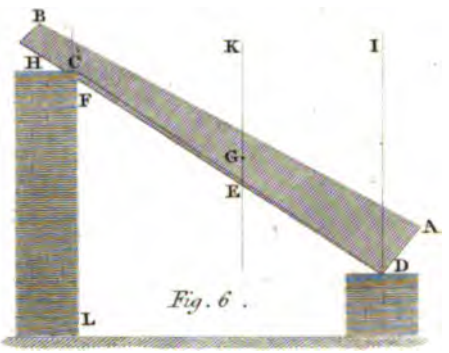


Fig. 5.



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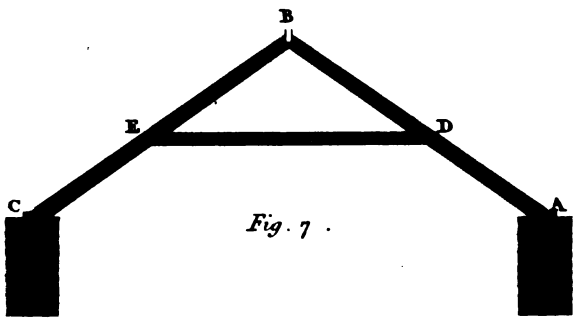

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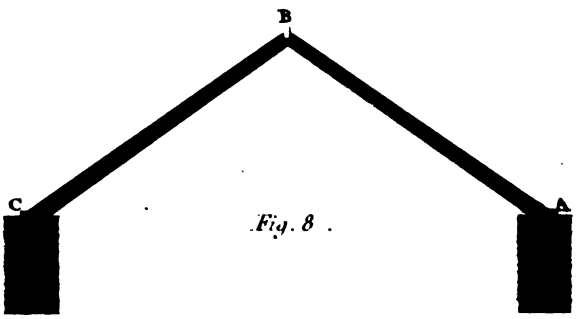

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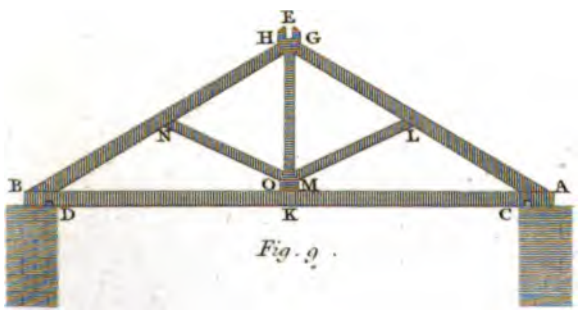

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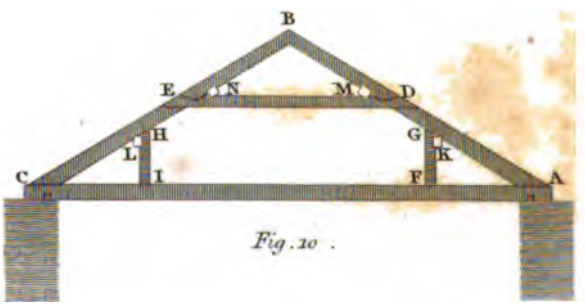

Fig. 10.

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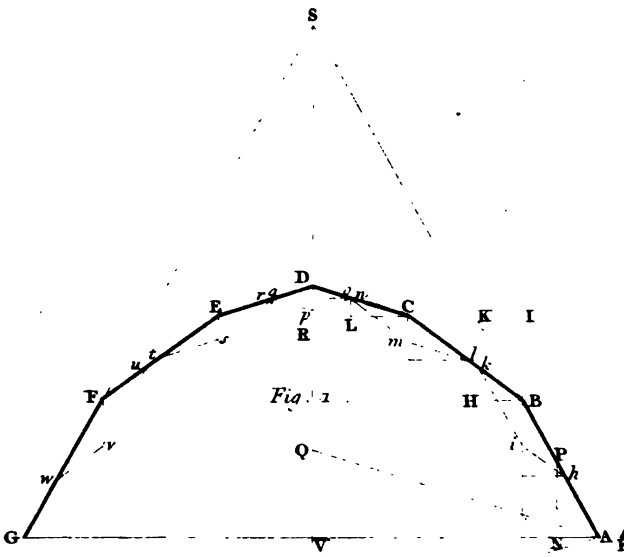

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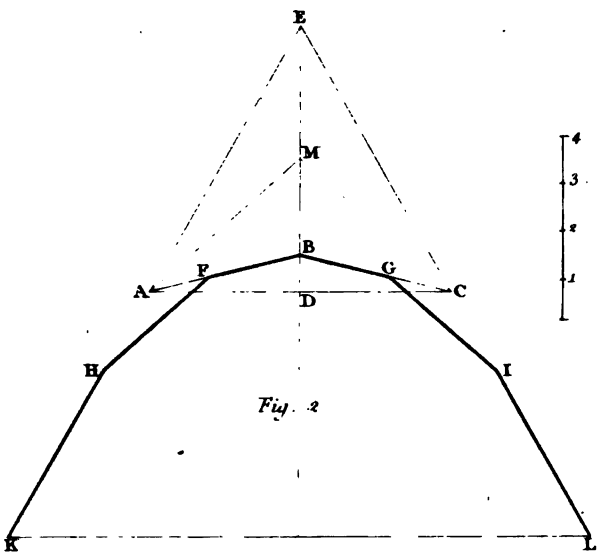

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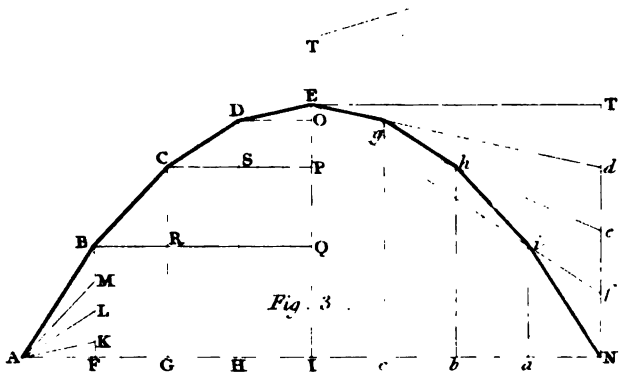

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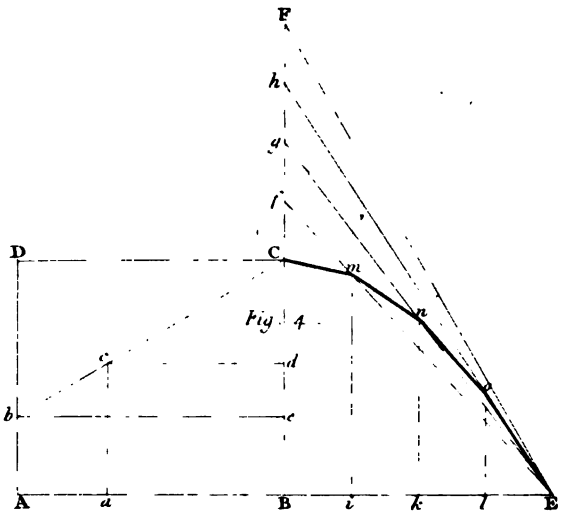

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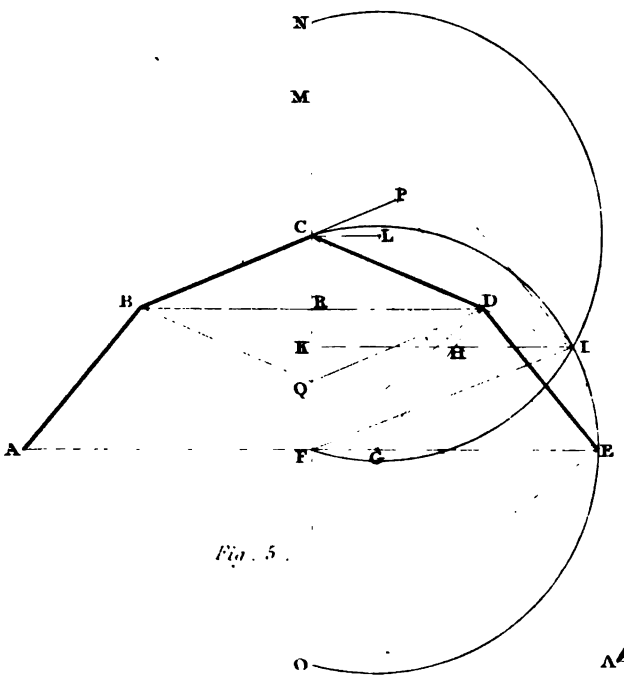

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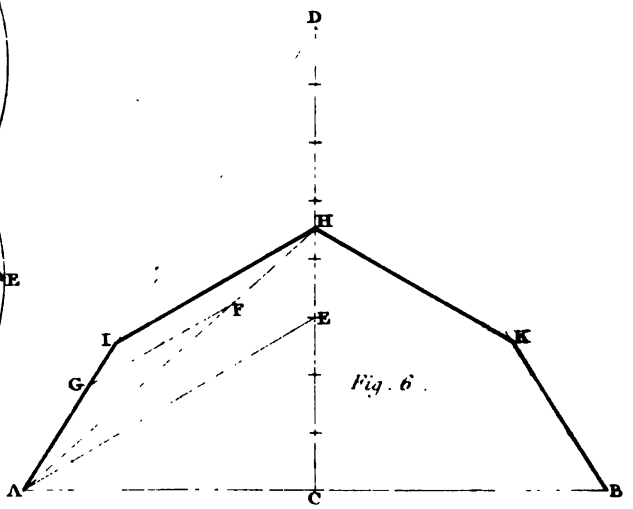

Fig. 6.

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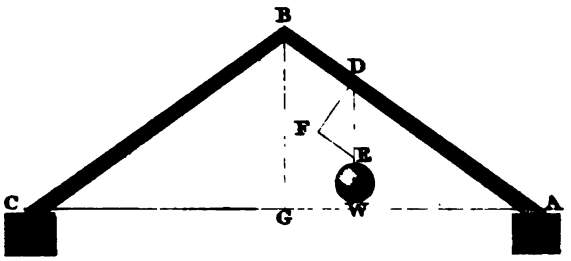
Fig. 2.



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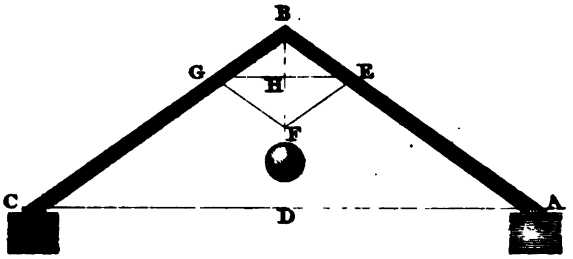

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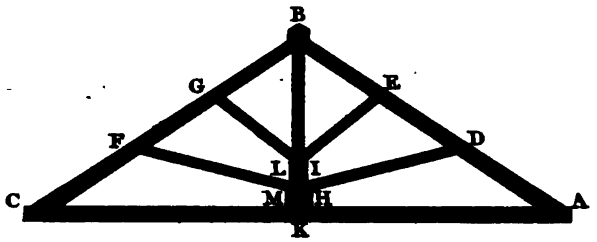

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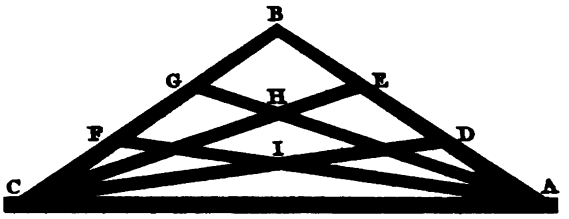

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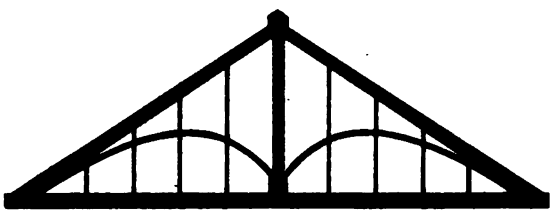

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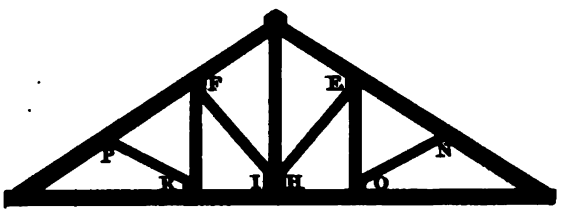

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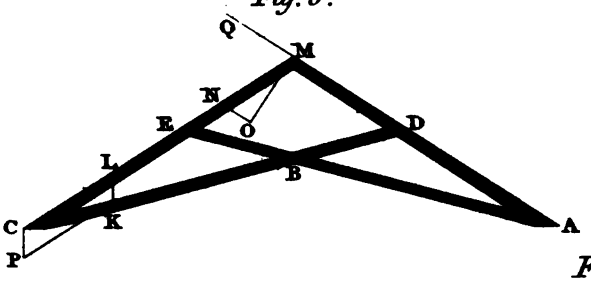

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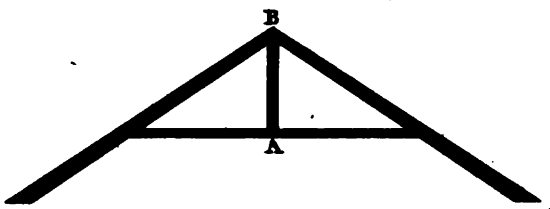

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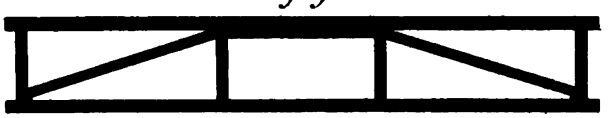

Fig. 10.

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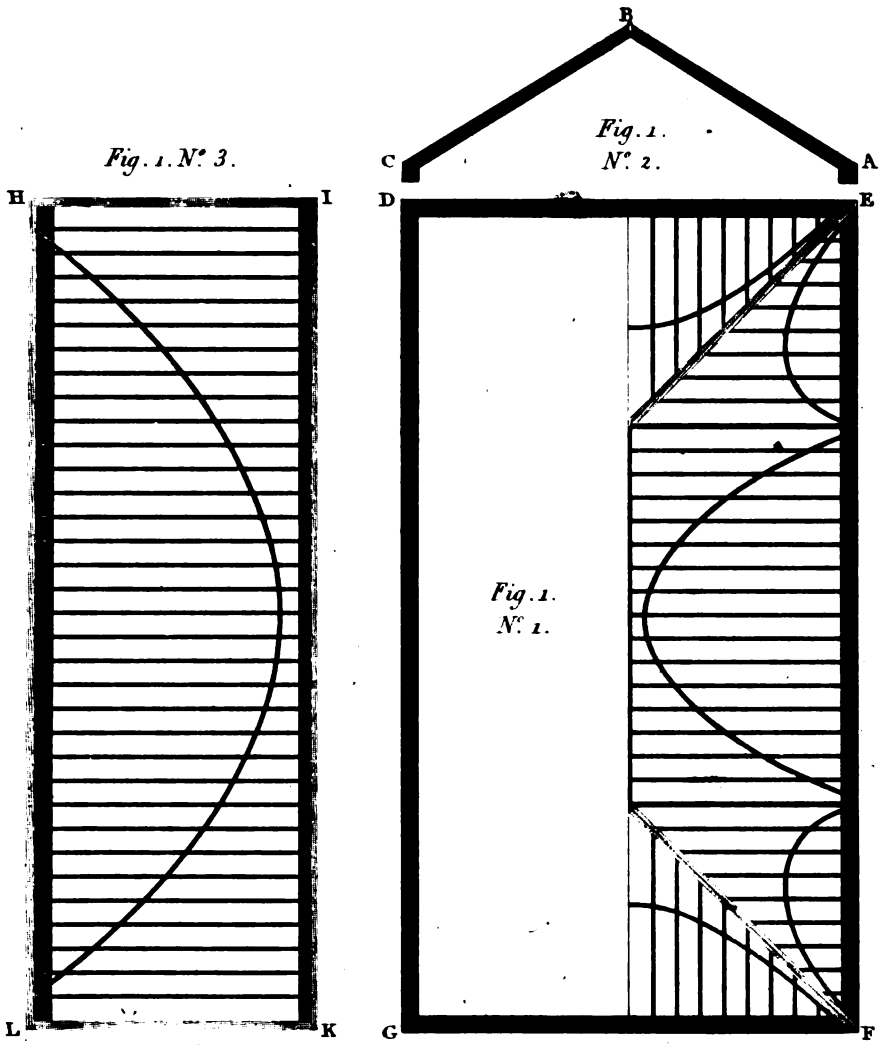

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Fig. 1. N° 2.

Fig. 1. N° 1.

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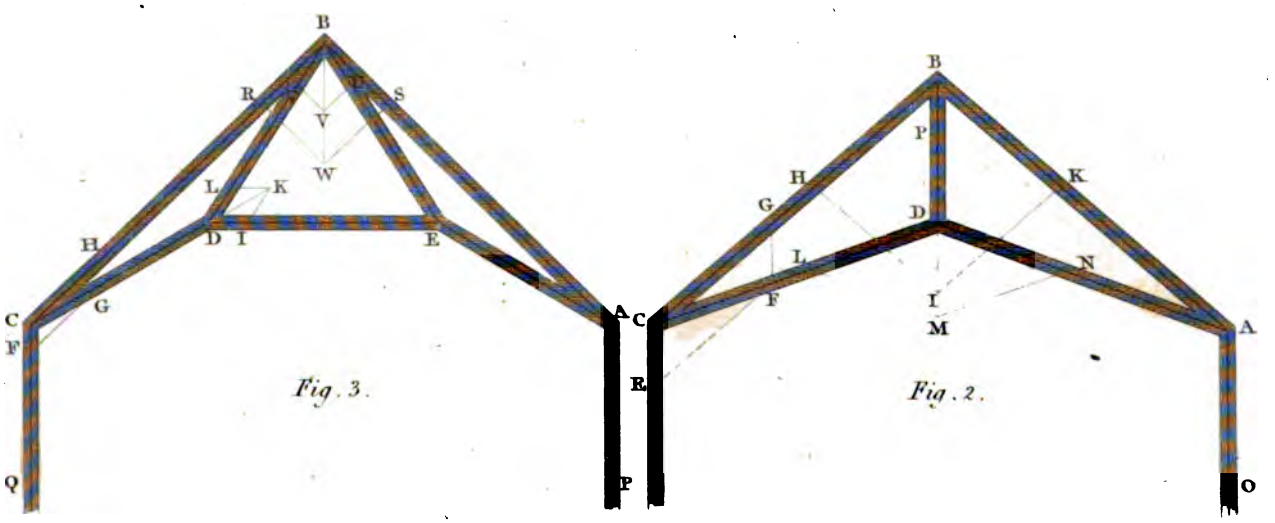

Fig. 3.

Fig. 2.

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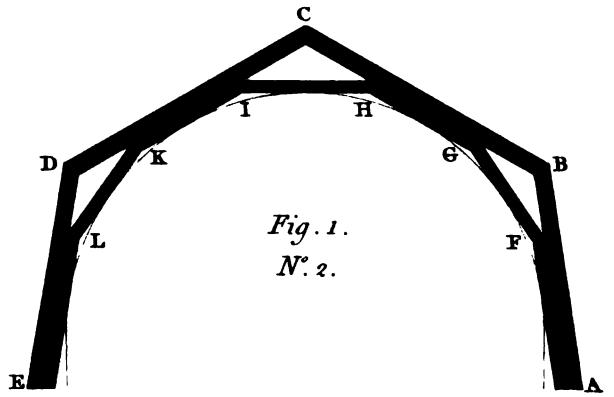

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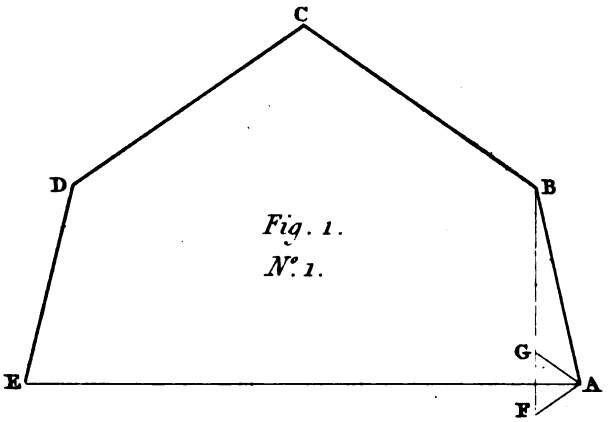

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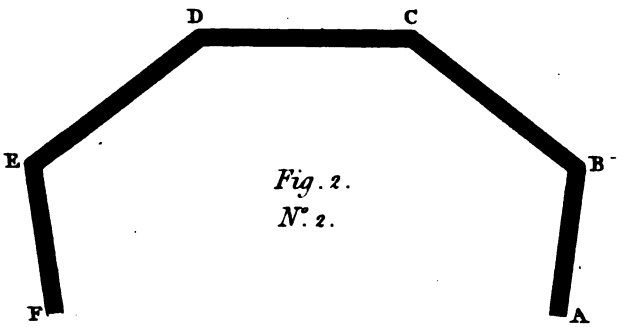

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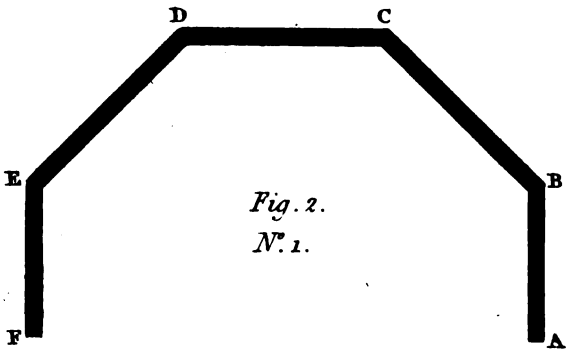

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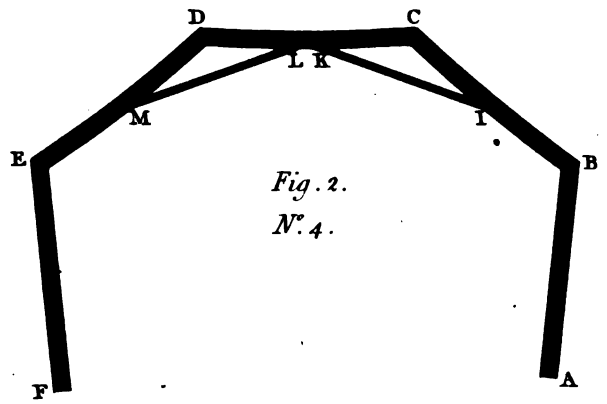

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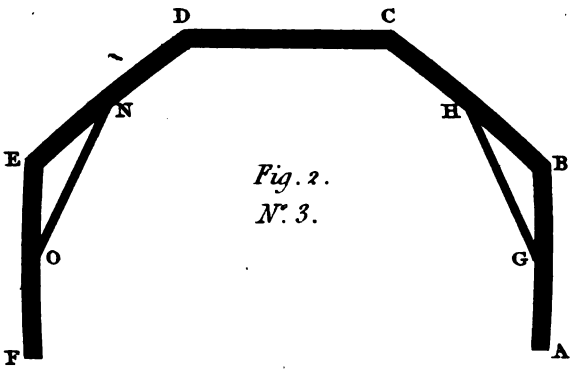

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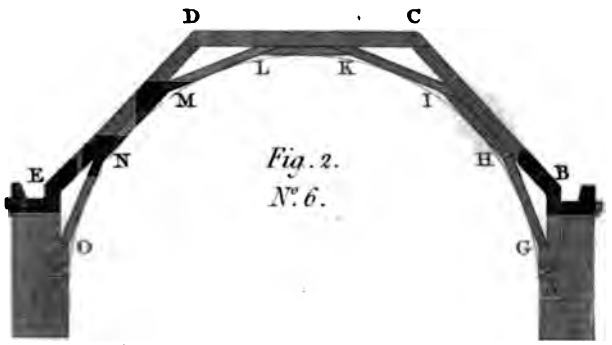

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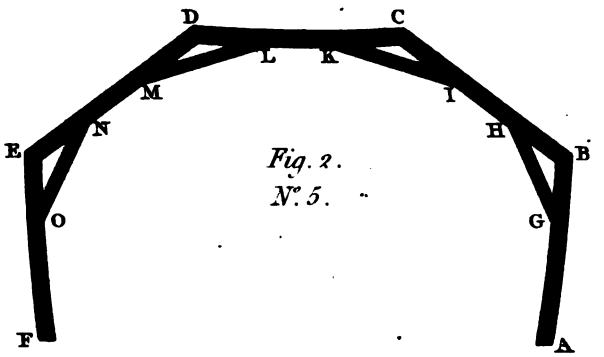

Fig. 2.
N°. 5.

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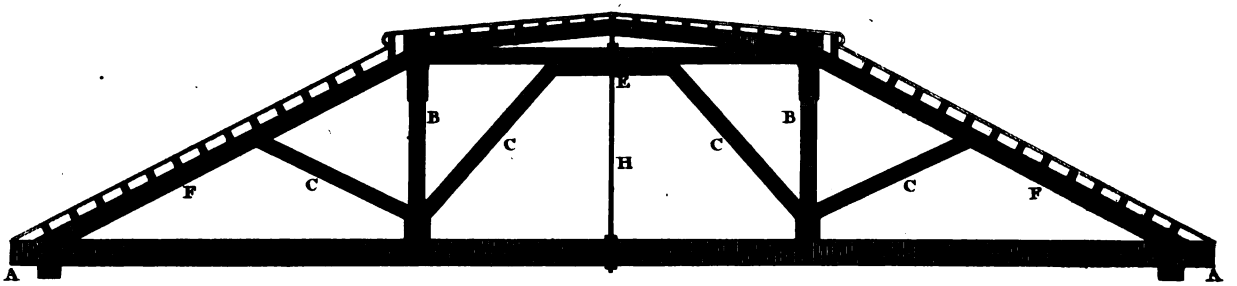

Fig. 2.

Fig. 3.

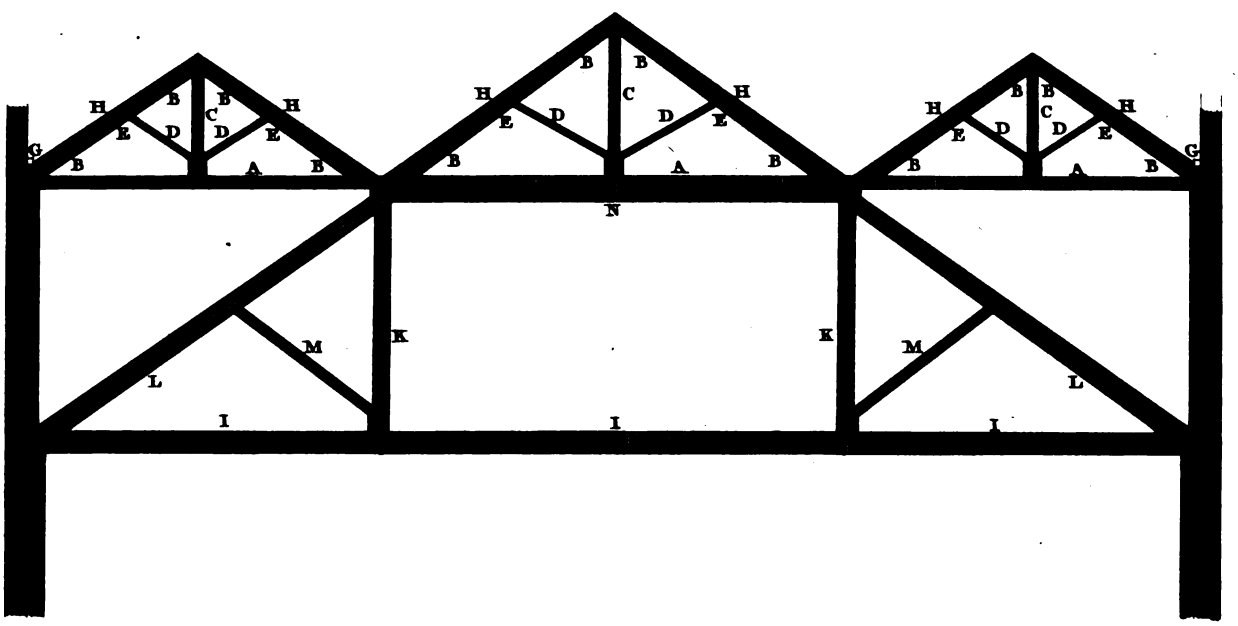

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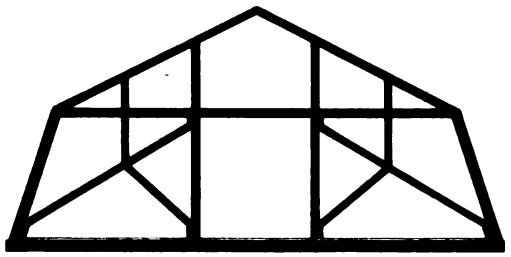
Fig. 2.



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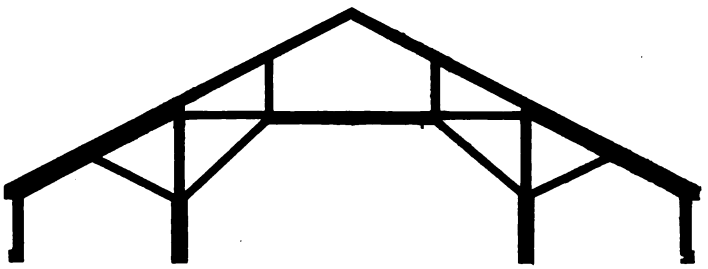

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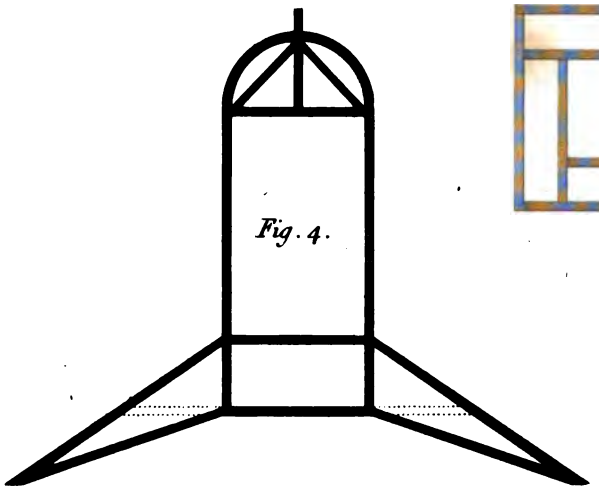

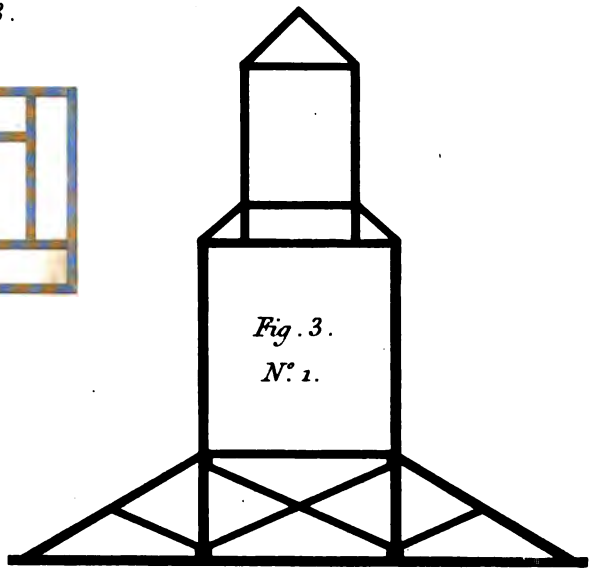

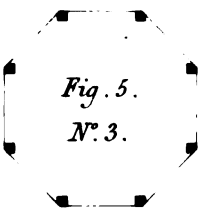

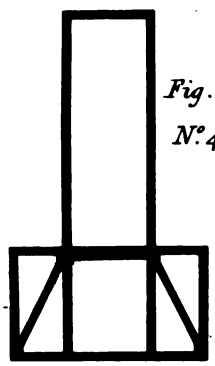

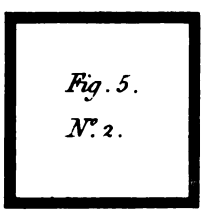

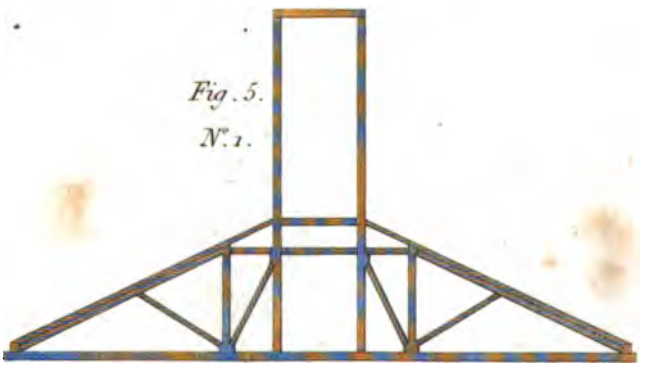

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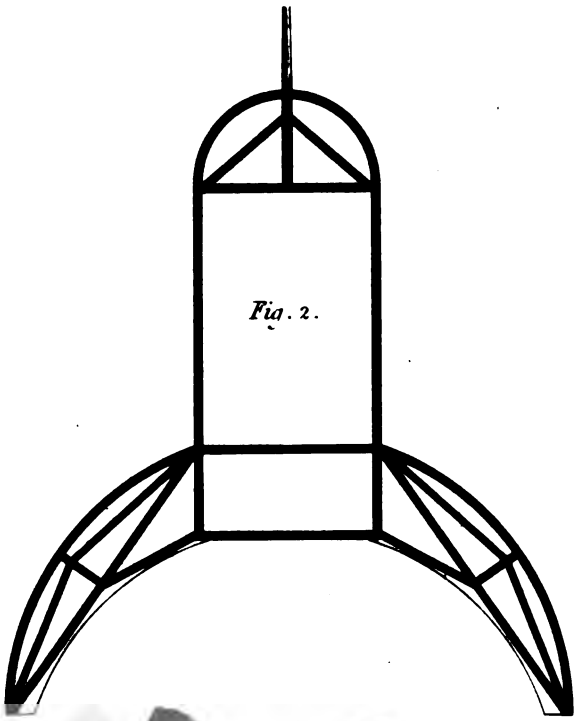

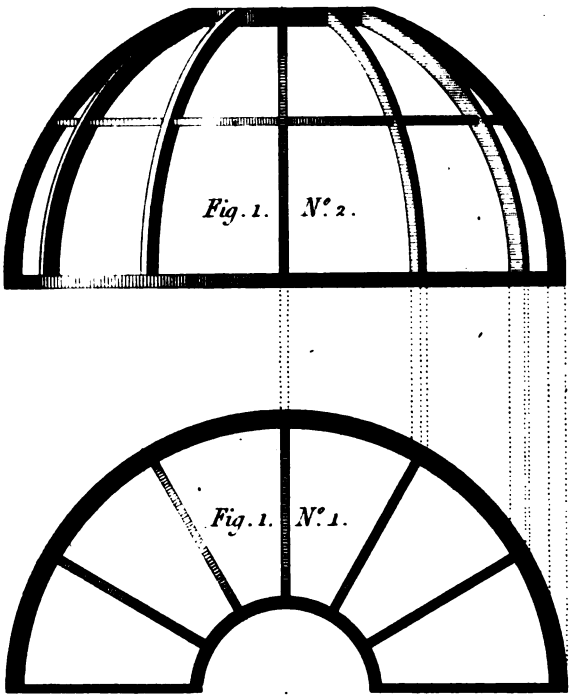

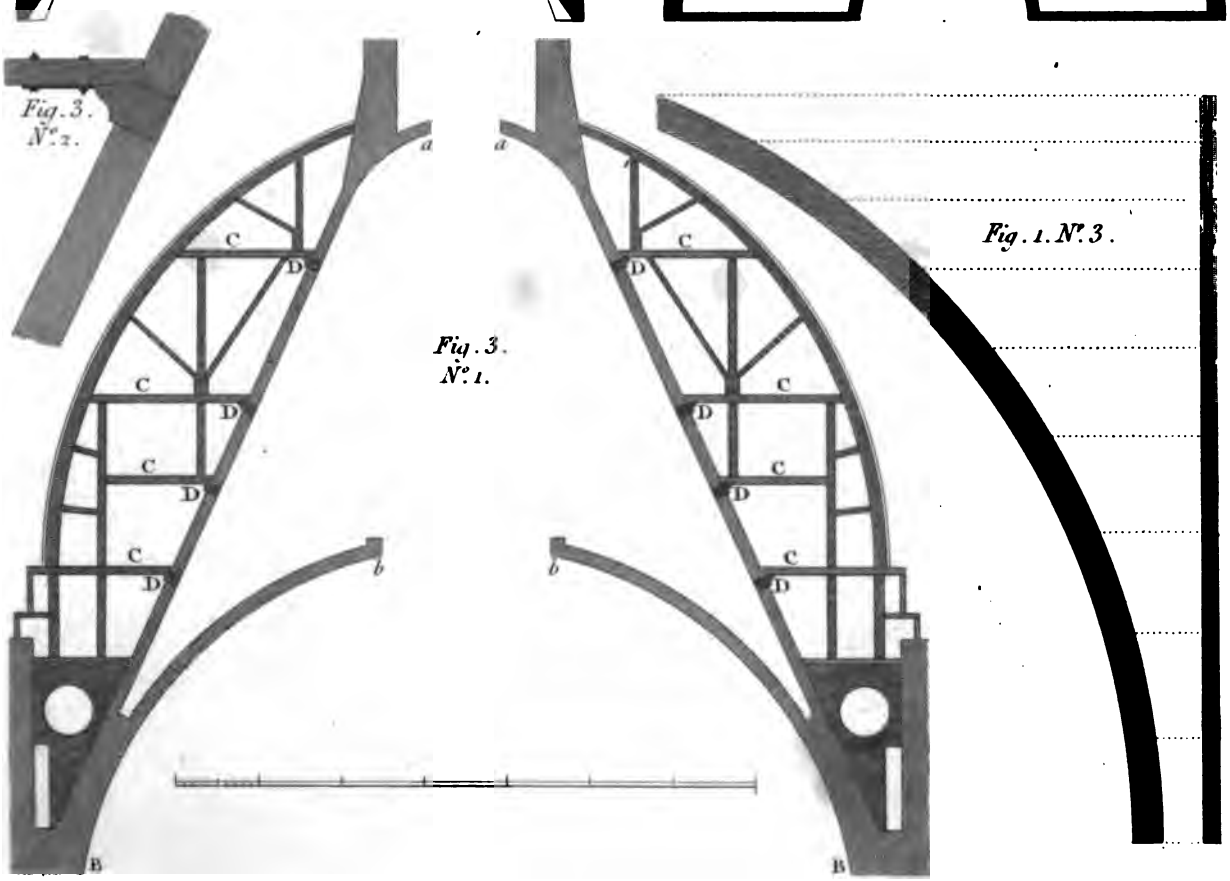

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ARCHITECTURE.

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Fig. 1.

Fig. 3.

Fig. 2.

Fig. 5.

Fig. 4.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9. Nos. 3 & 4.

Fig. 9. N°. 1.

Fig. 9. N°. 2.

Fig. 9. N°. 5.

Fig. 9. N°. 6.

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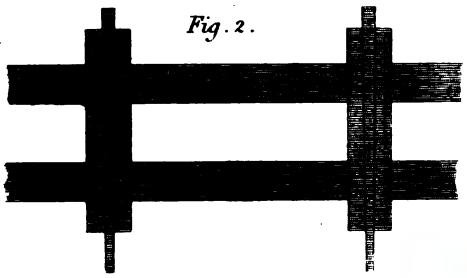

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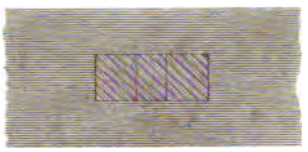

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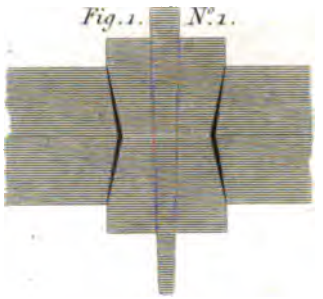

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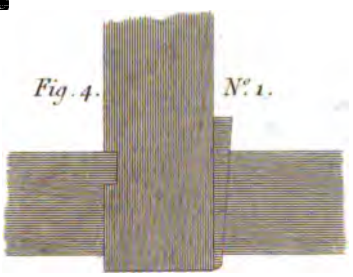

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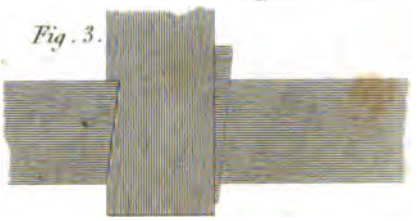
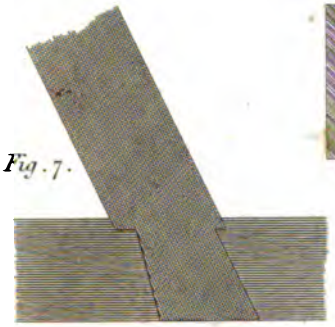


Fig. 3.

Fig. 4. N°. 2.

Fig. 6. N°. 2.



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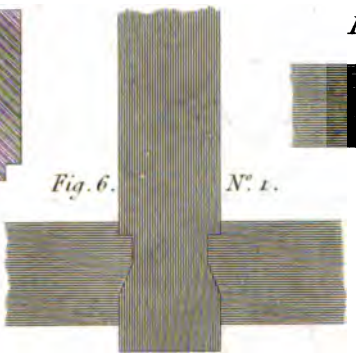
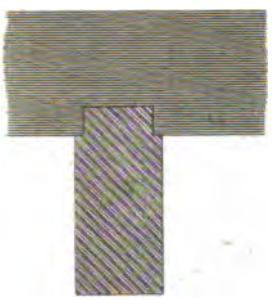


Fig. 6. N°. 1.

Fig. 5. N°. 1.

Fig. 5. N°. 2.



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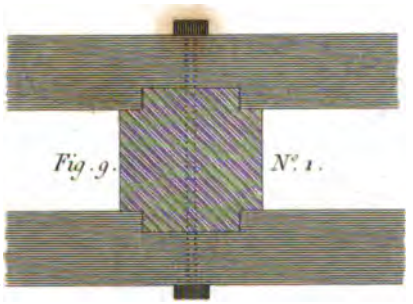

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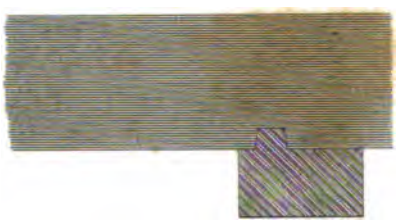

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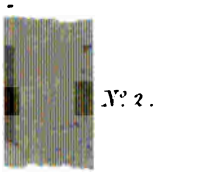

Fig. 10. N°. 2.

Fig. 9. N°. 3.

Fig. 9. N°. 2.

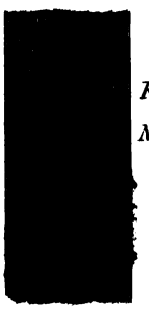

Fig. 8. N°. 2.

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ARCHITECTURE.

CARPENTRY.

Fig. 2.

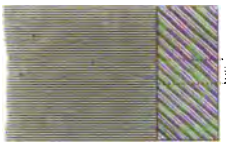

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Fig. 2. N°. 1.

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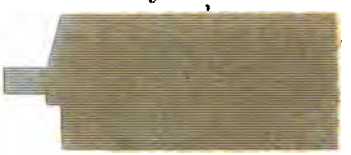

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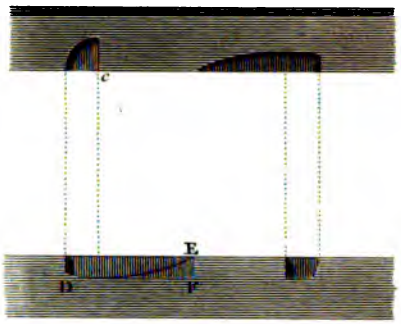

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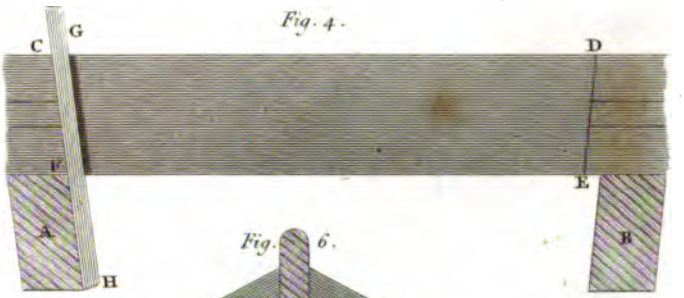

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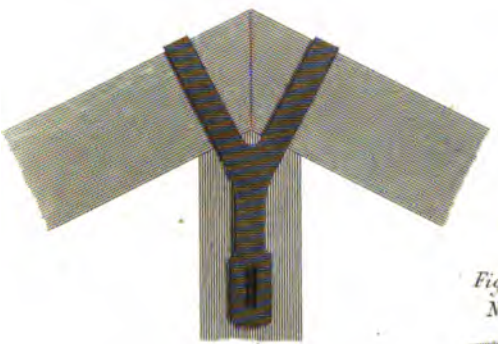

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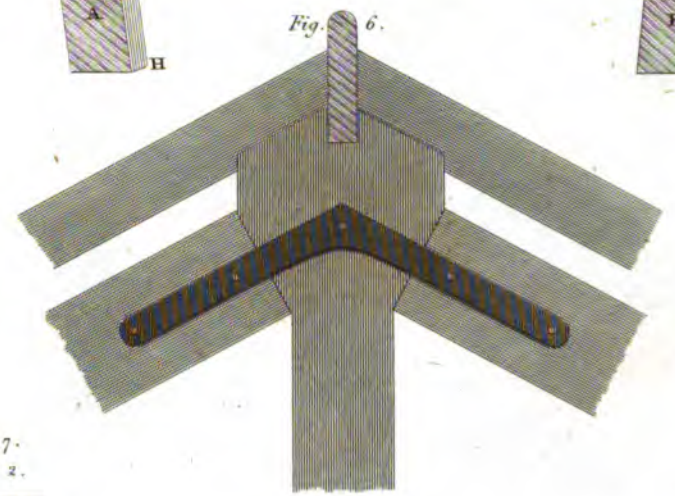

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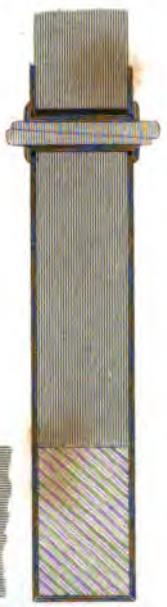

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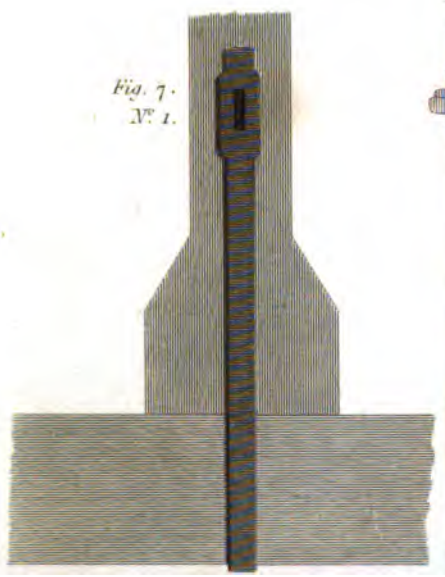

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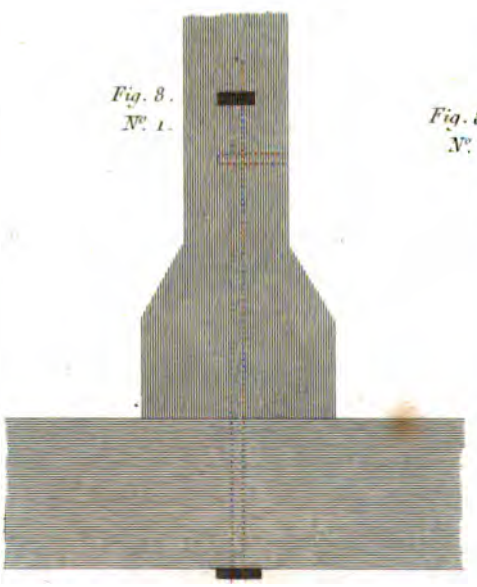

Fig. 8. N°. 2.

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ARCHITECTURE.

CARPENTRY.

Fig. 4. N°. 1.

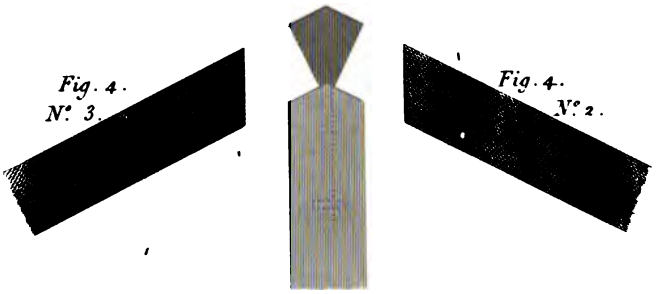

Fig. 4. N°. 3.

Fig. 4. N°. 2.

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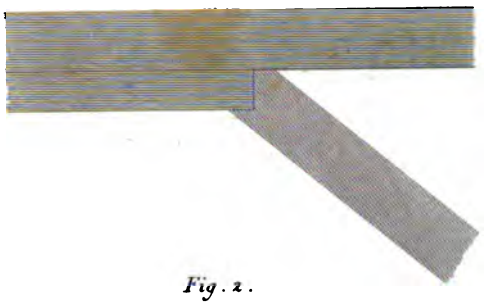
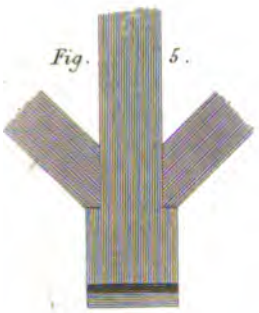


Fig. 2.

Fig. 4. N°. 4.

Fig. 5.



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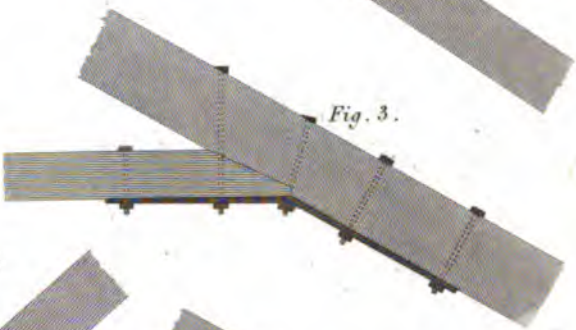

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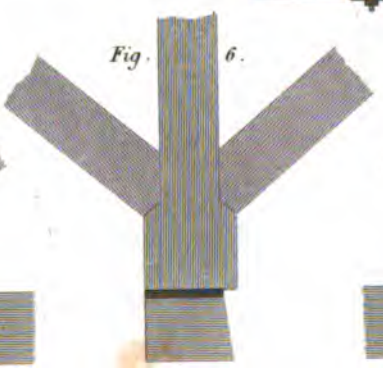

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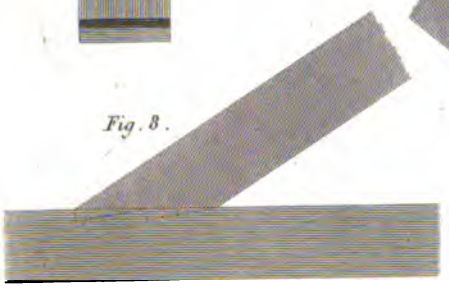

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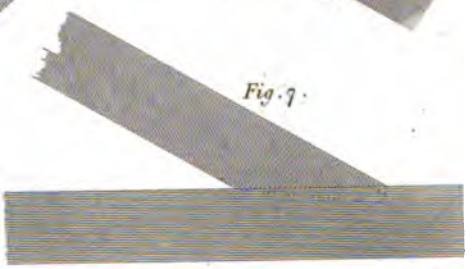

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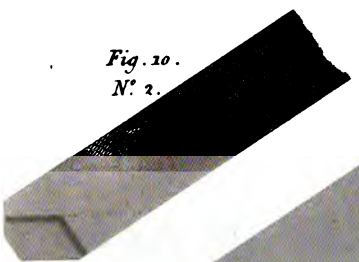

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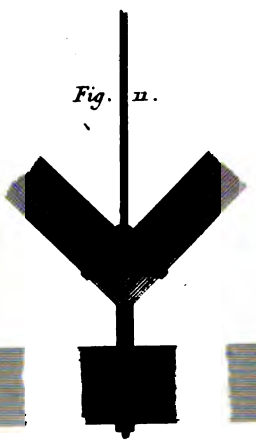

Fig. 9. N°. 2.

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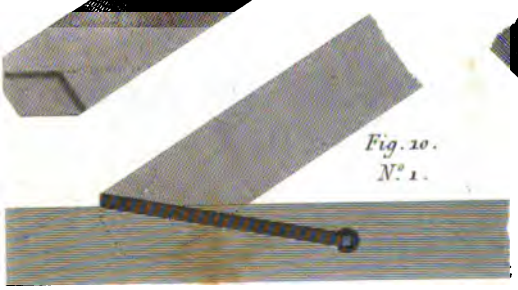

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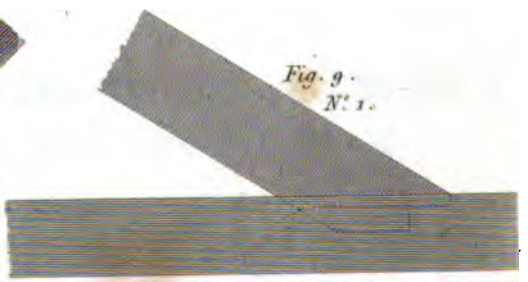

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ARCHITECTURE.

CARPENTRY.

Fig. 1.

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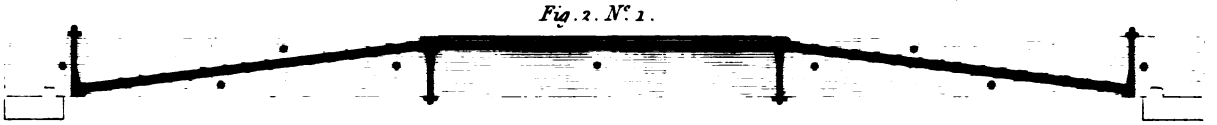

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Fig. 2. N°. 7.

Fig. 2. N°. 6.

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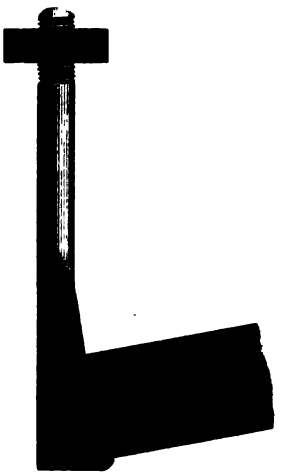

Fig. 2. N°. 4.

Fig. 2. N°. 3.

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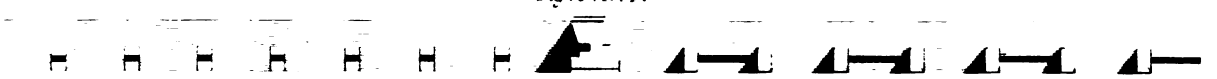


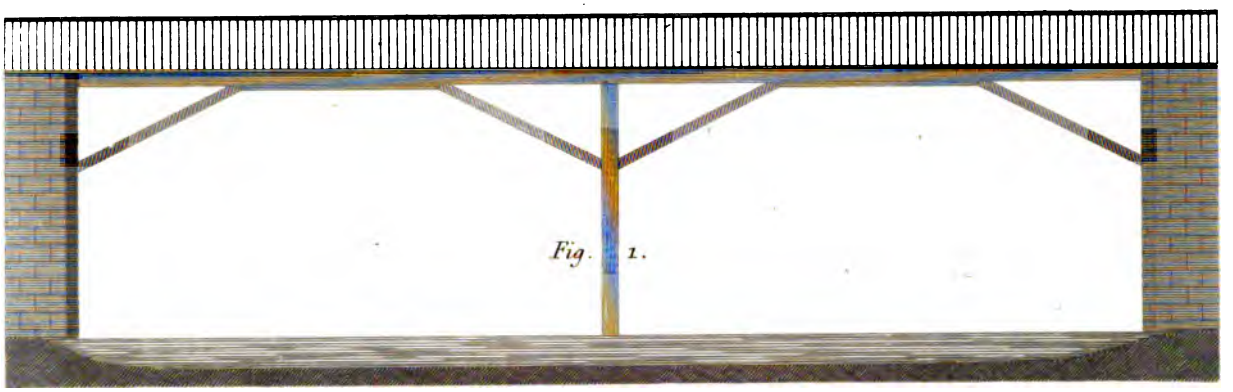
Fig. 3. N°. 2.

Fig. 4. N°. 1.

Fig. 4. N°. 2.

ARCHITECTURE.

BRIDGES.



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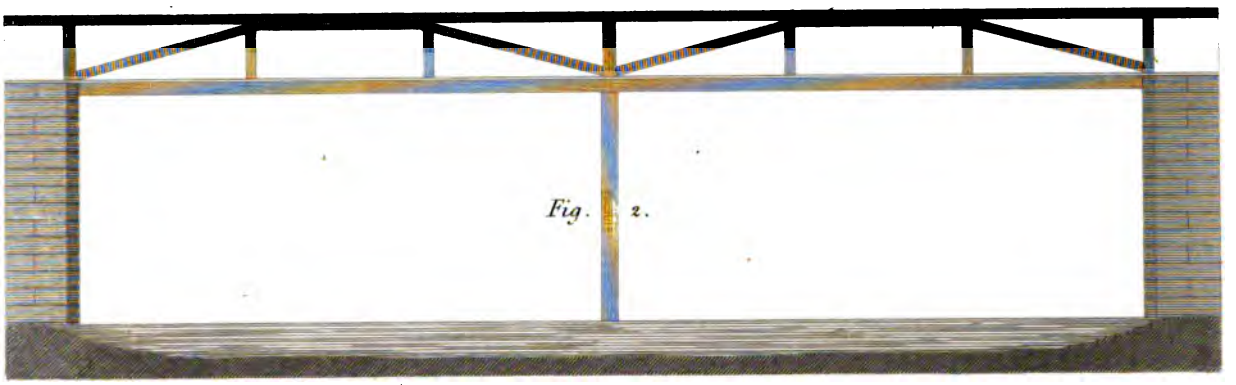

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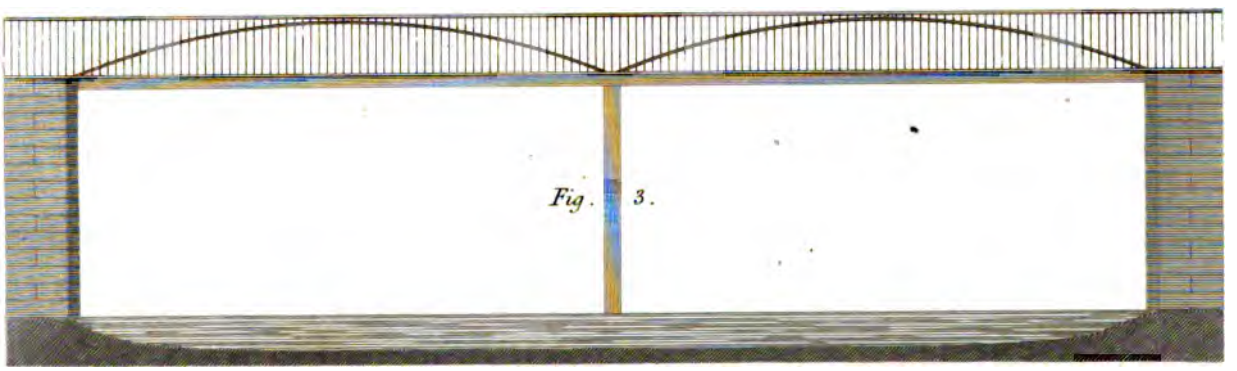

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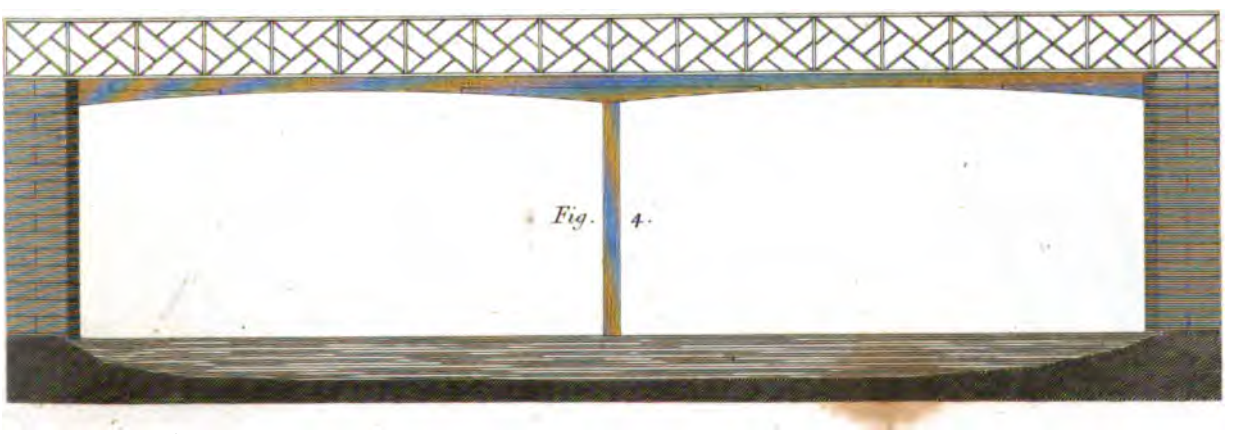

Fig. 4.

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ARCHITECTURE.

CENTRES.

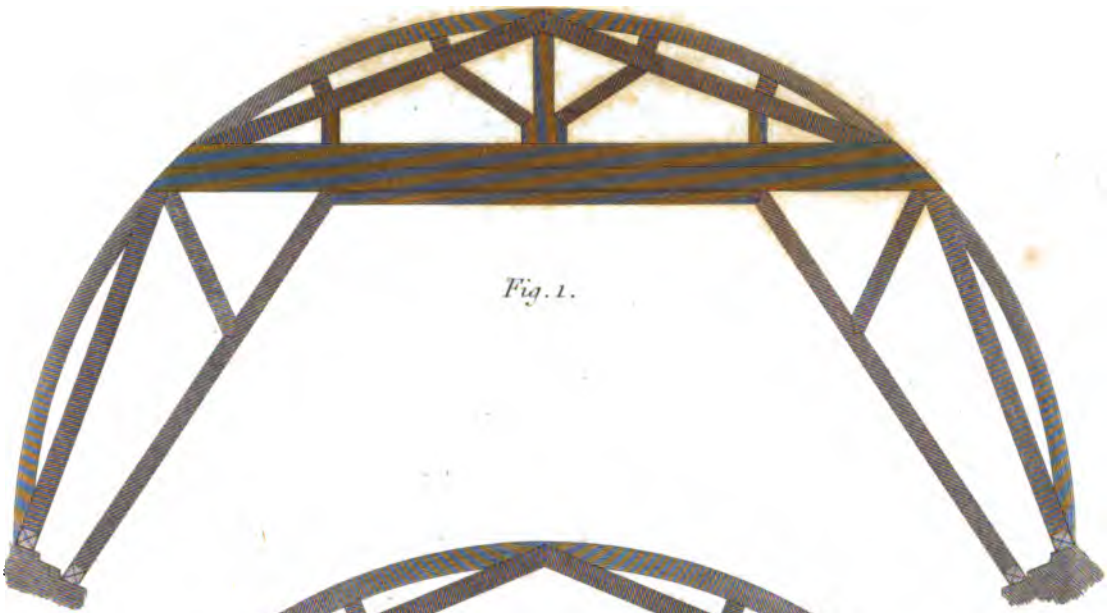
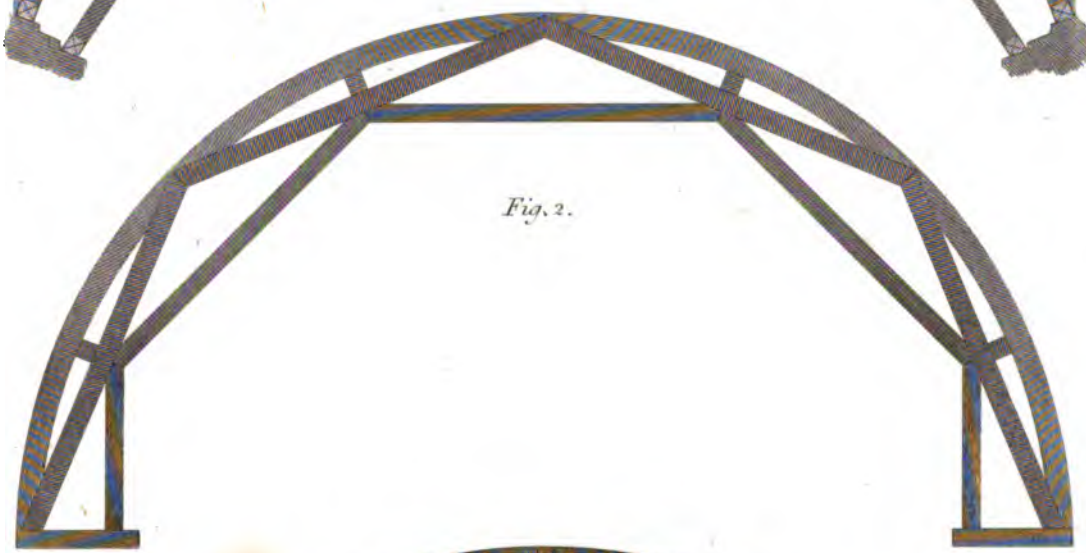


Fig. 1.



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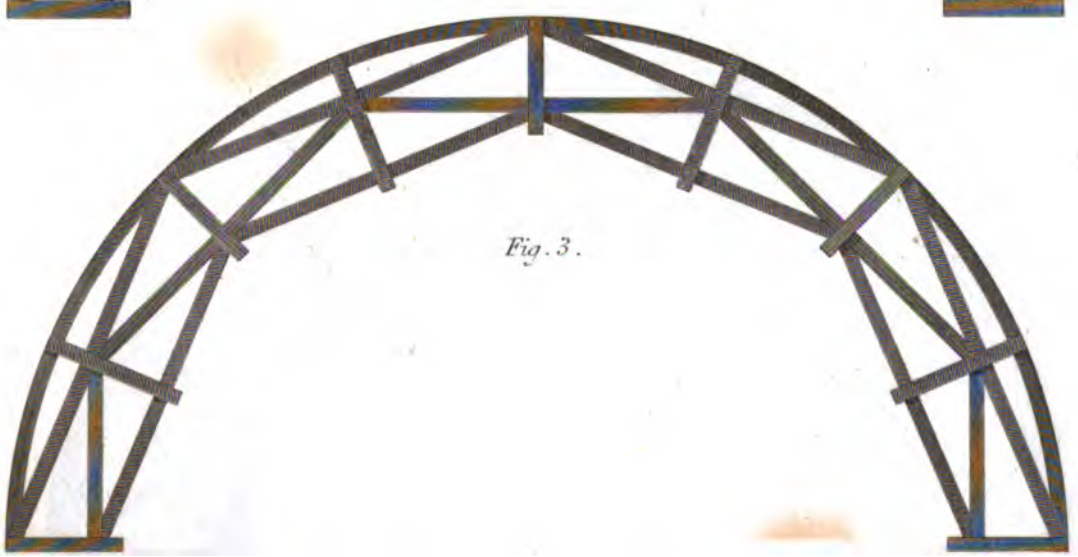

Fig. 3.

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ARCHITECTURE.

CENTRES.

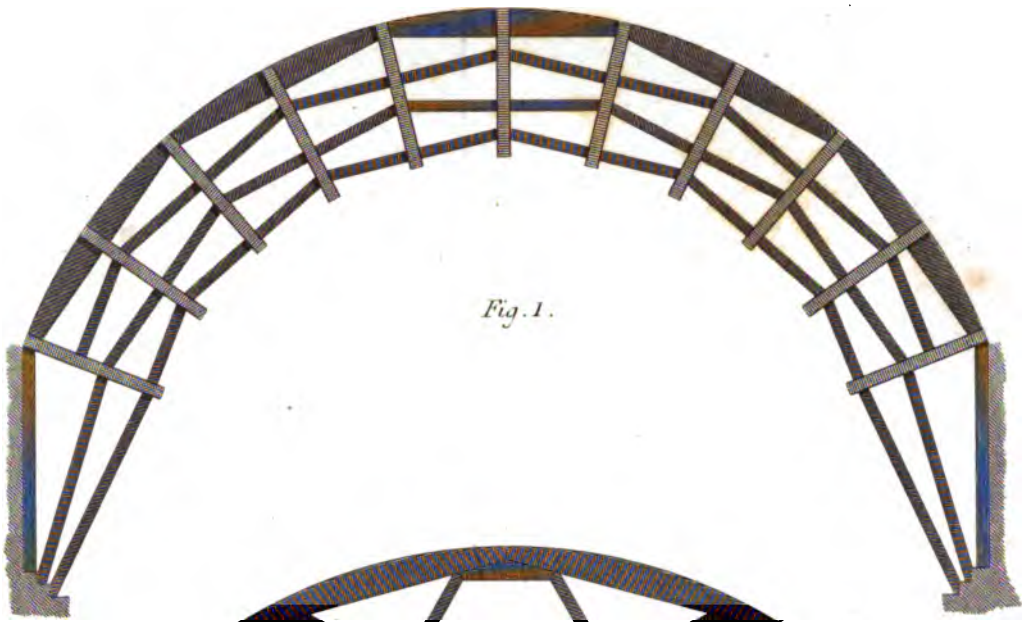
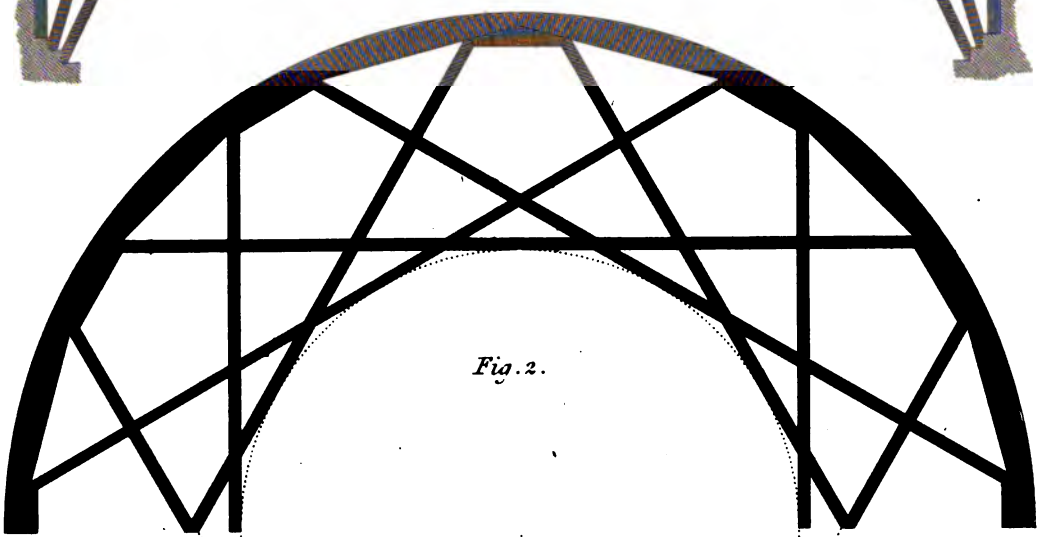


Fig. 1.



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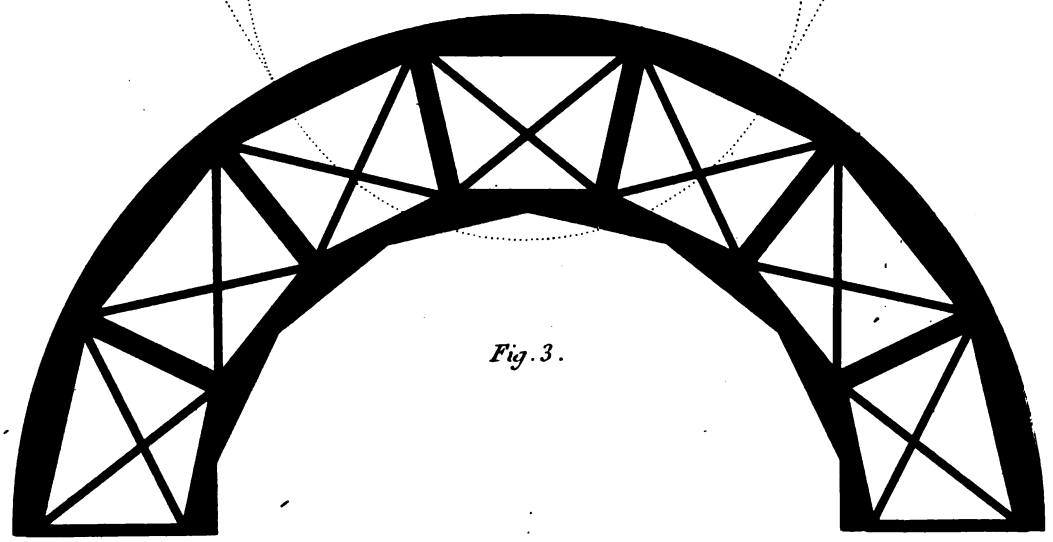

Fig. 3.

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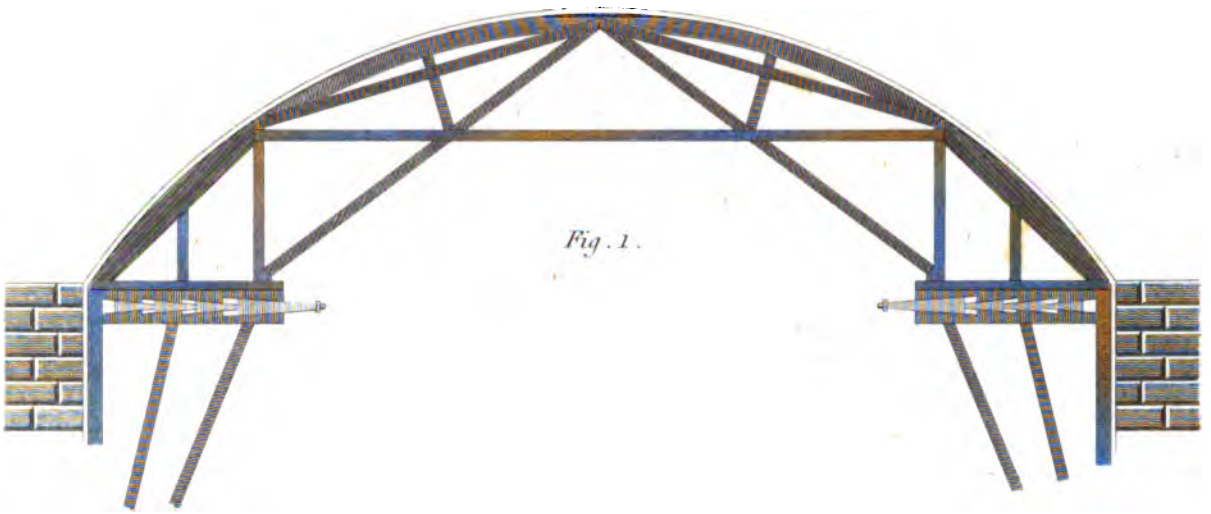
ARCHITECTURE.

CENTRES.



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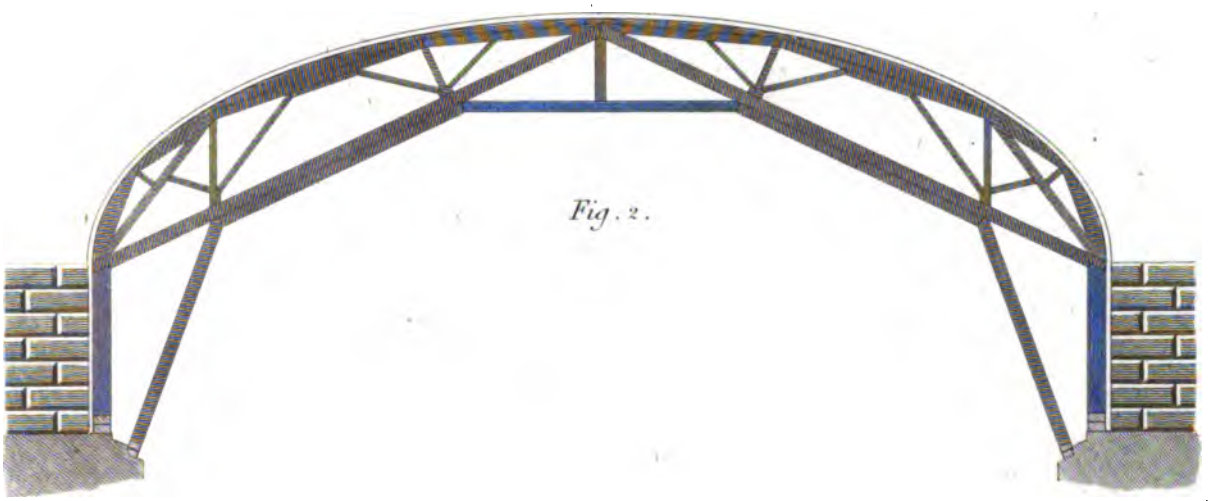

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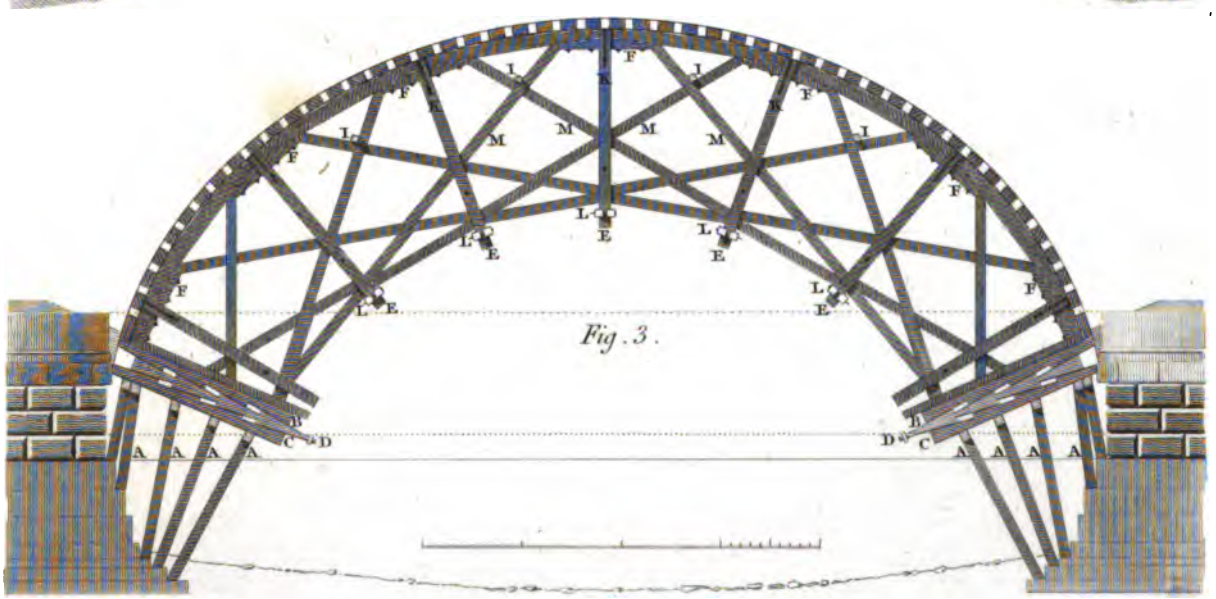

Fig. 3.

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ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

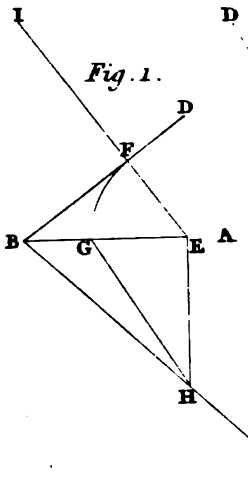
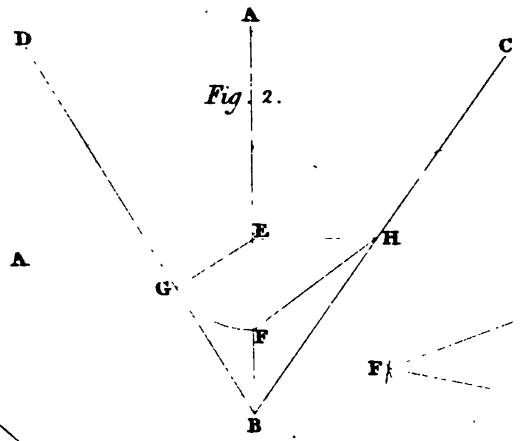


Fig. 1.



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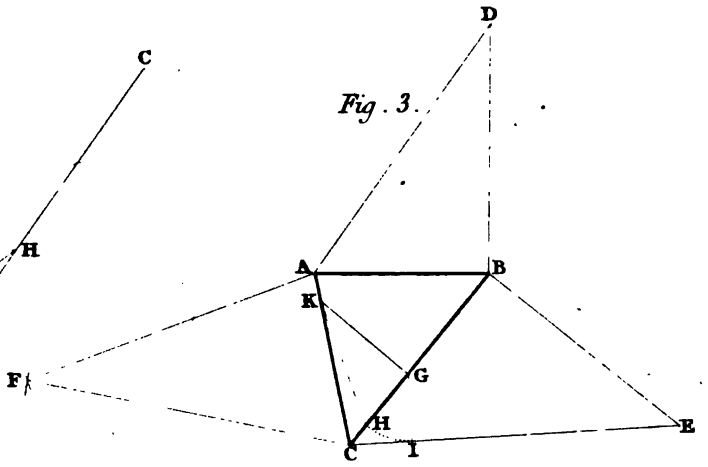

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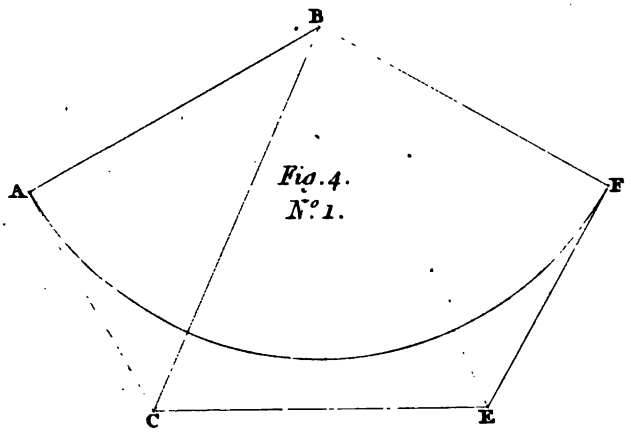

Fig. 4.
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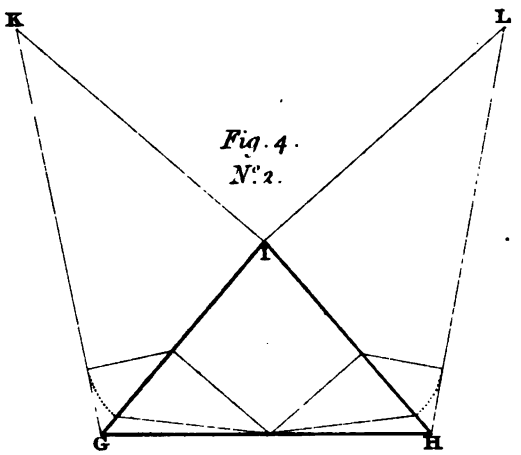

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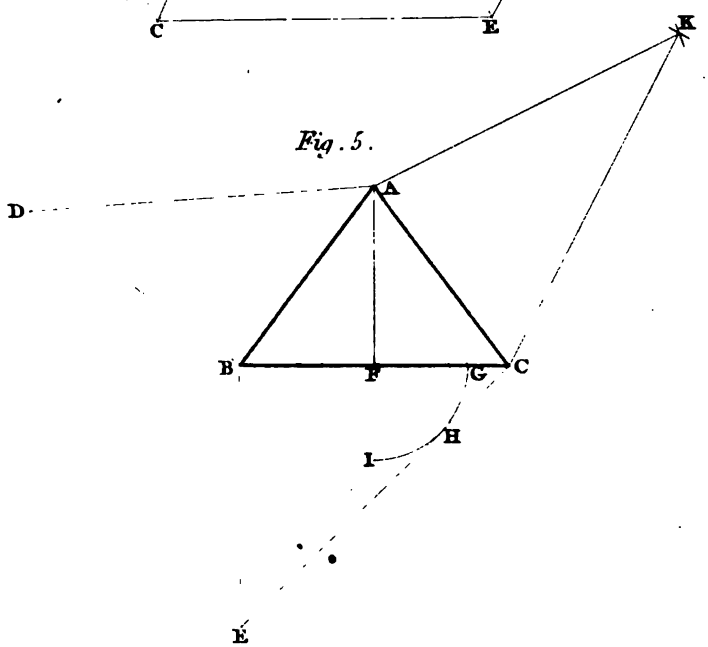
N°. 2.



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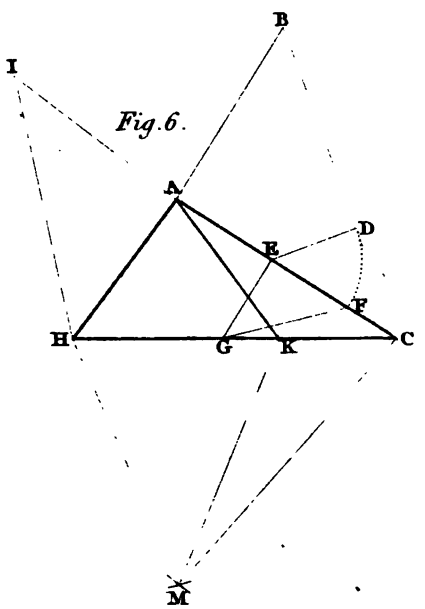

Fig. 6.

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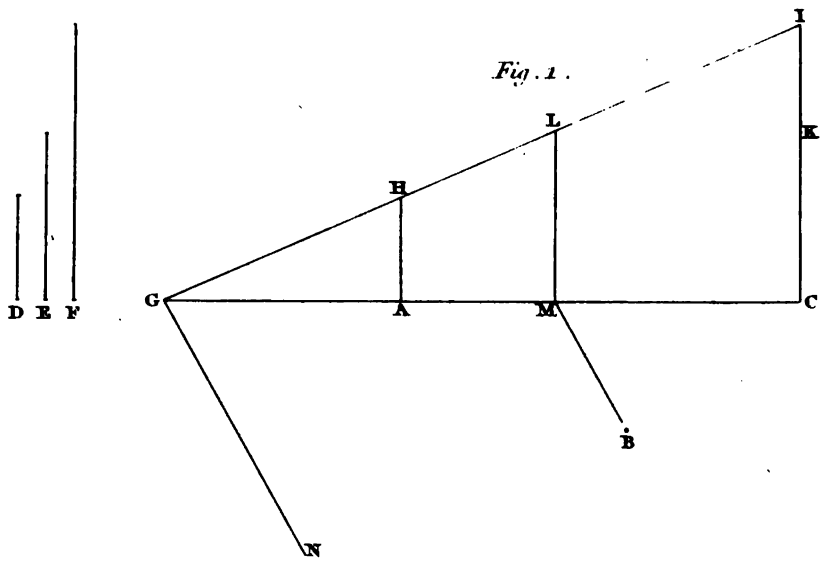
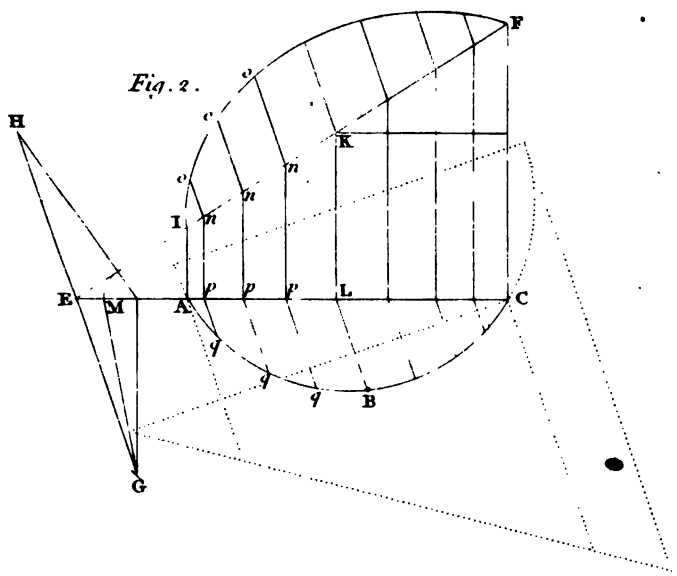
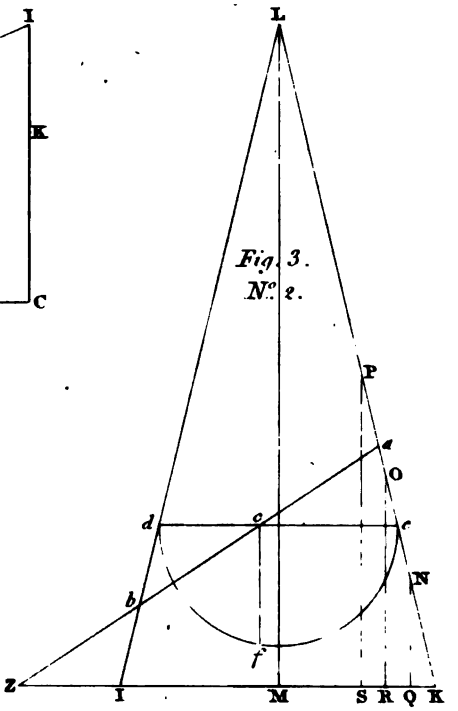
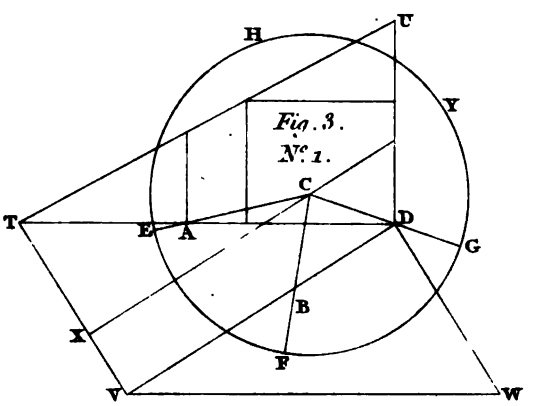
ARCHITECTURE.

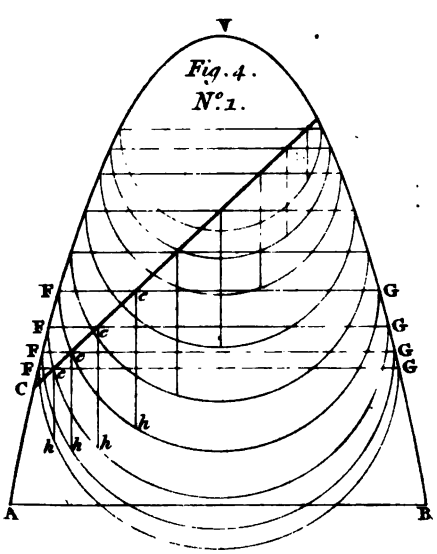
GEOMETRICAL PRINCIPLES OF CARPENTRY.

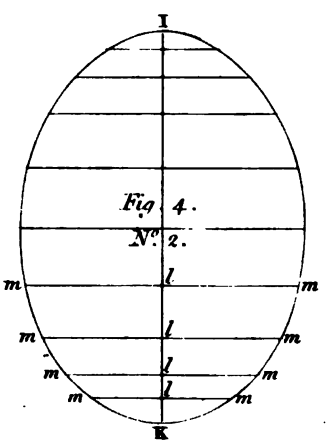












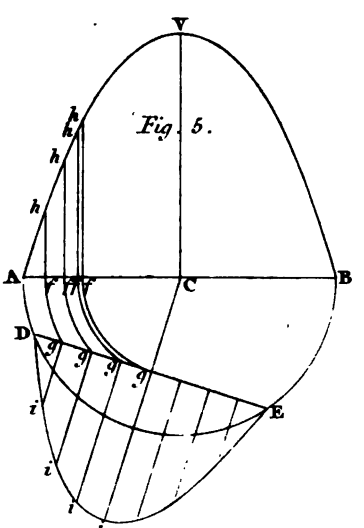


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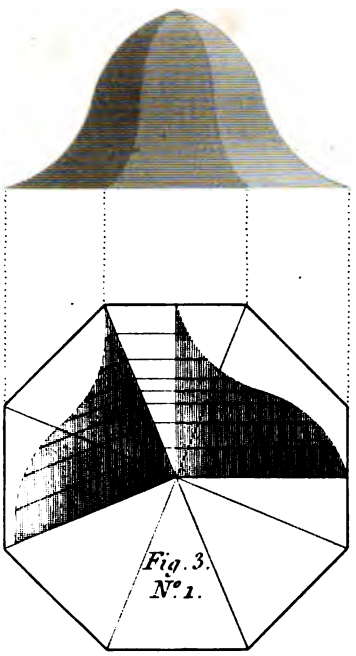
Fig. 3. N°. 2.



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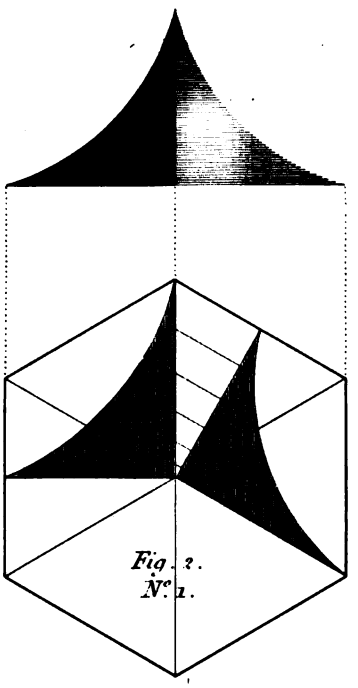

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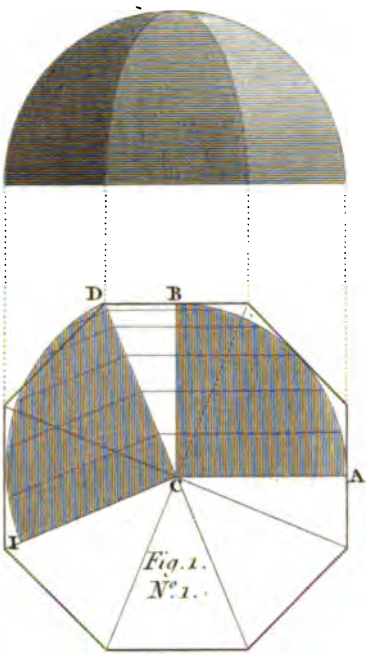

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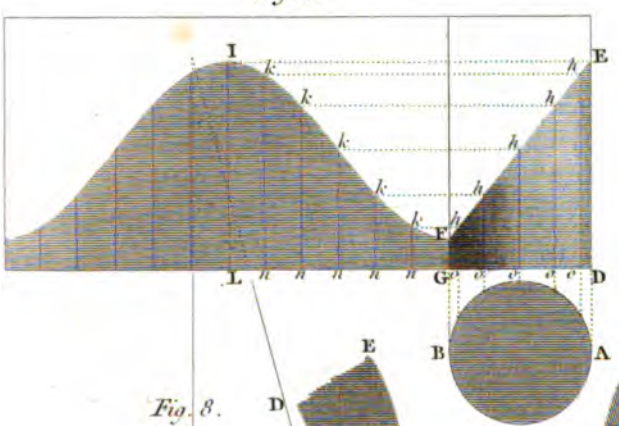
Fig. 5.



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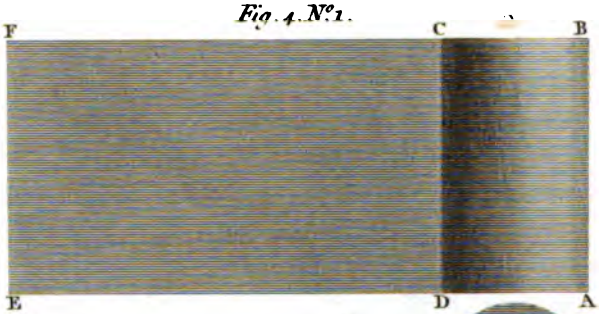

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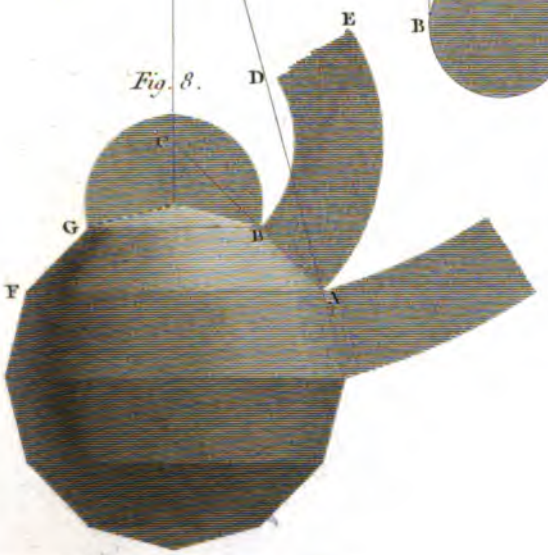

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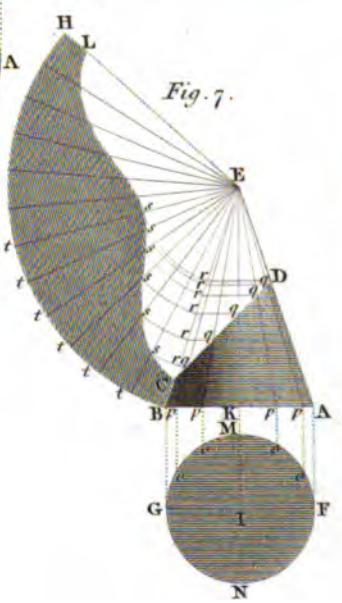

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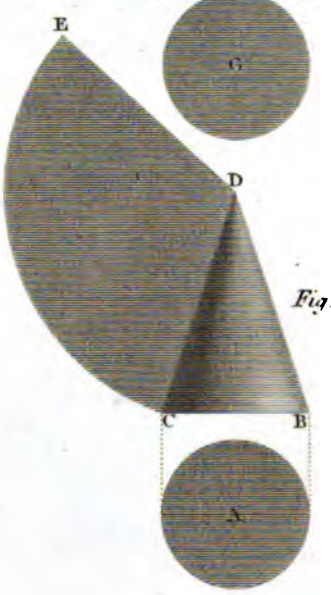

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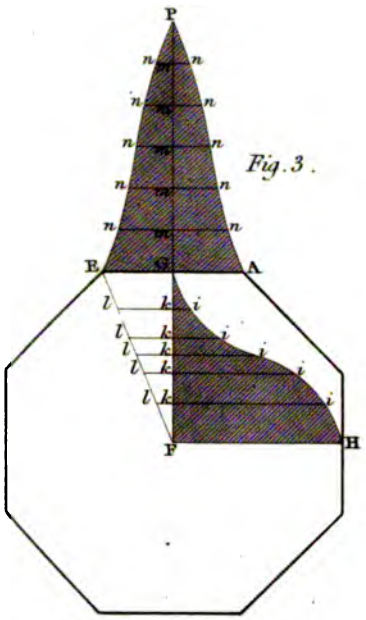

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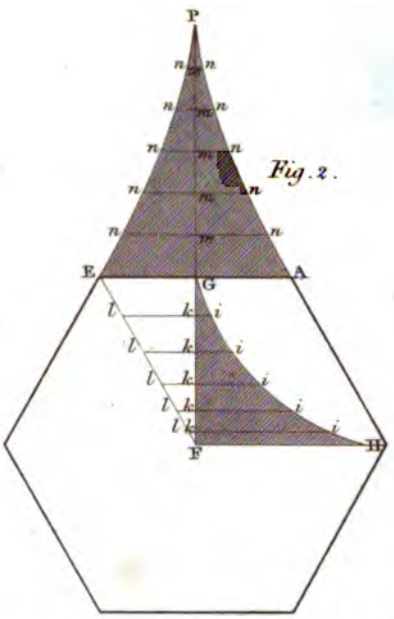

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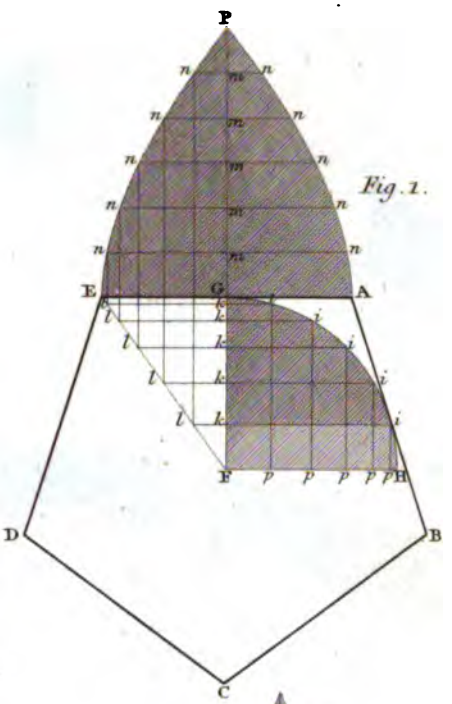
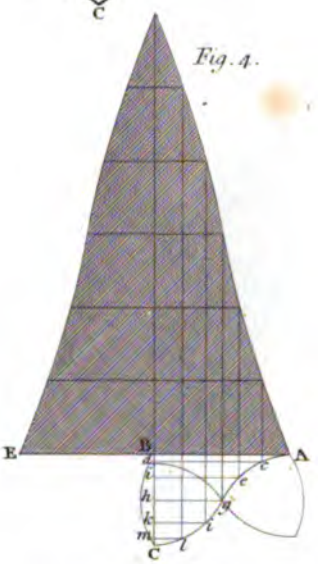


Fig. 1.

Fig. 5.

Fig. 6.

Fig. 4.



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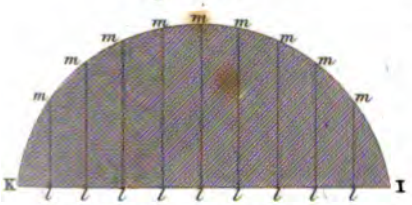

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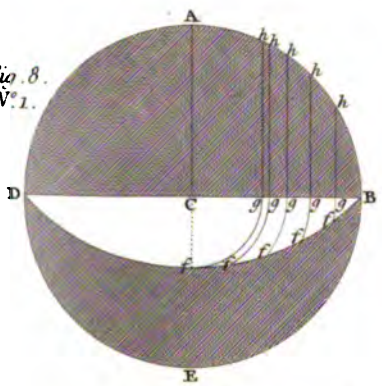

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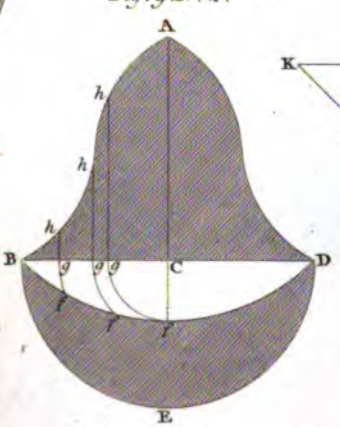

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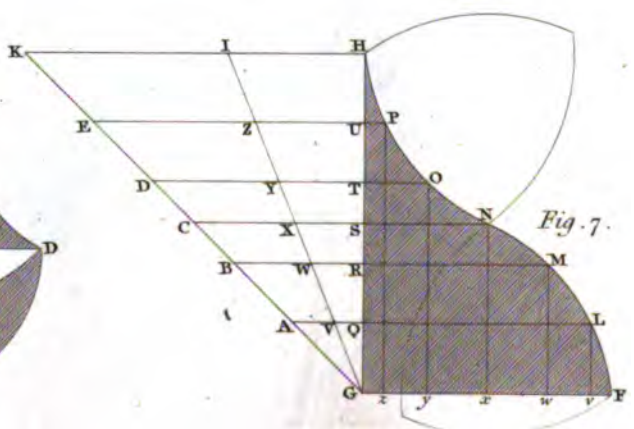

Fig. 7.

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GEOMETRICAL PRINCIPLES OF CARPENTRY.

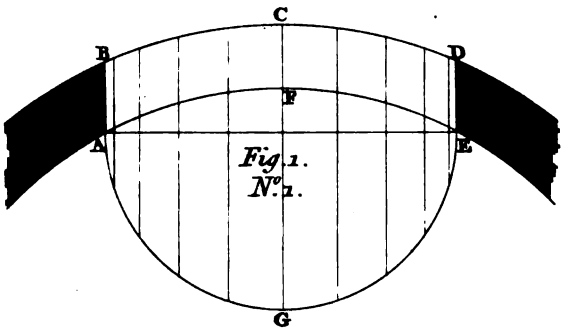

Fig. 1.
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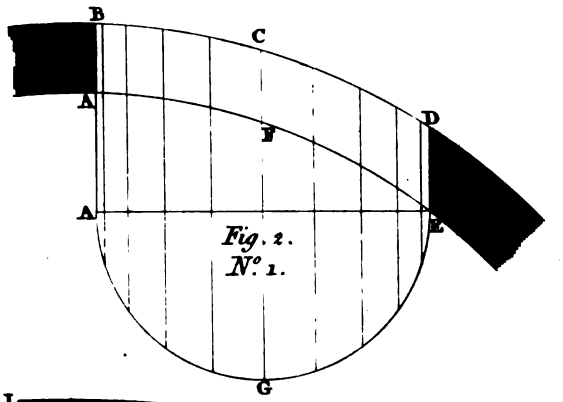

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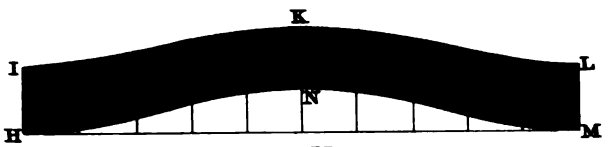

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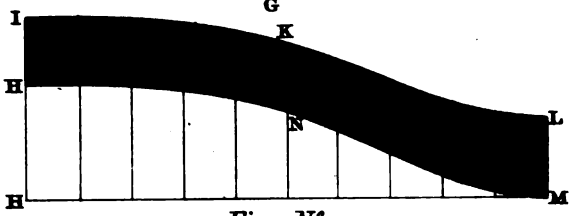

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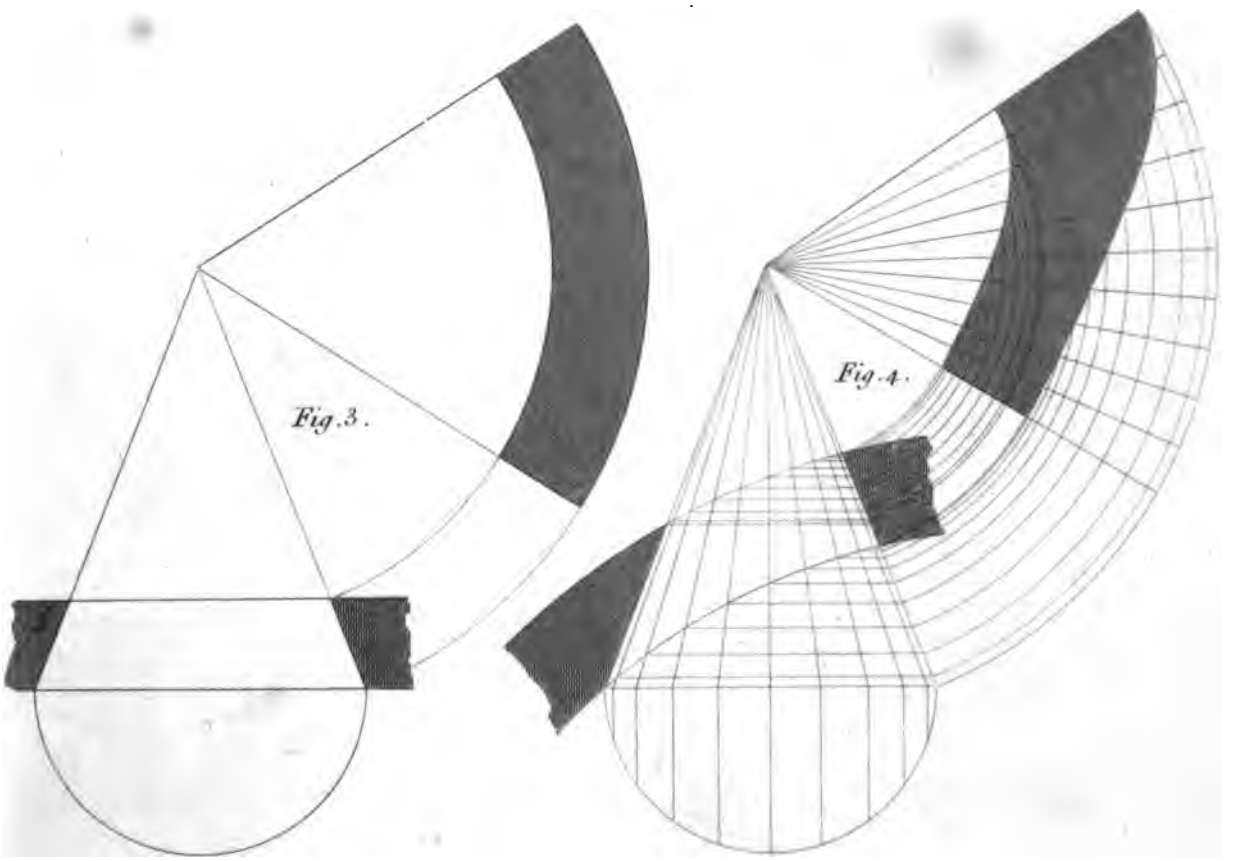

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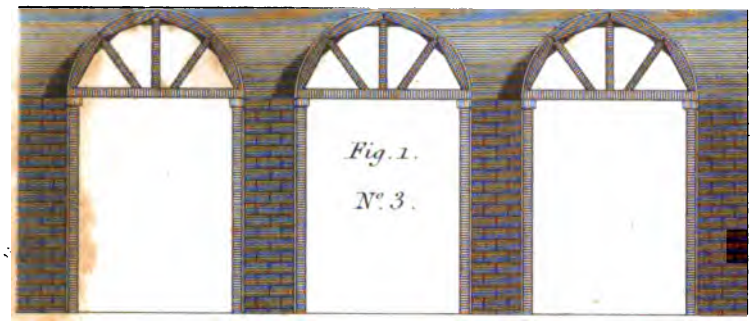

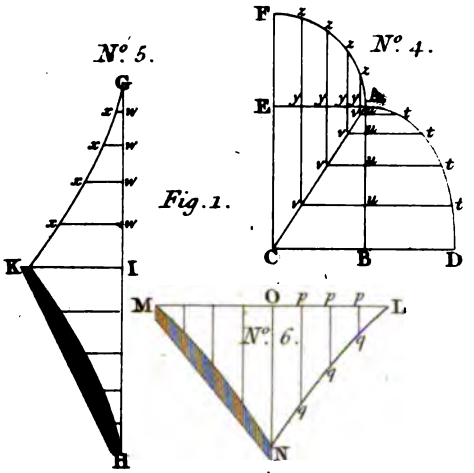

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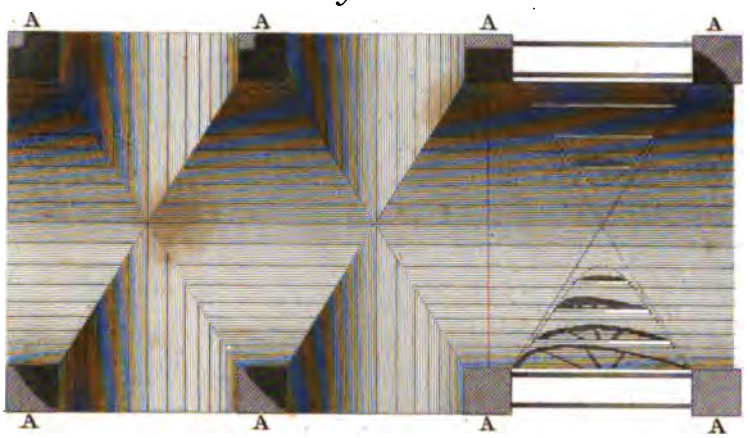

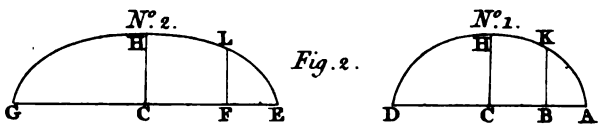

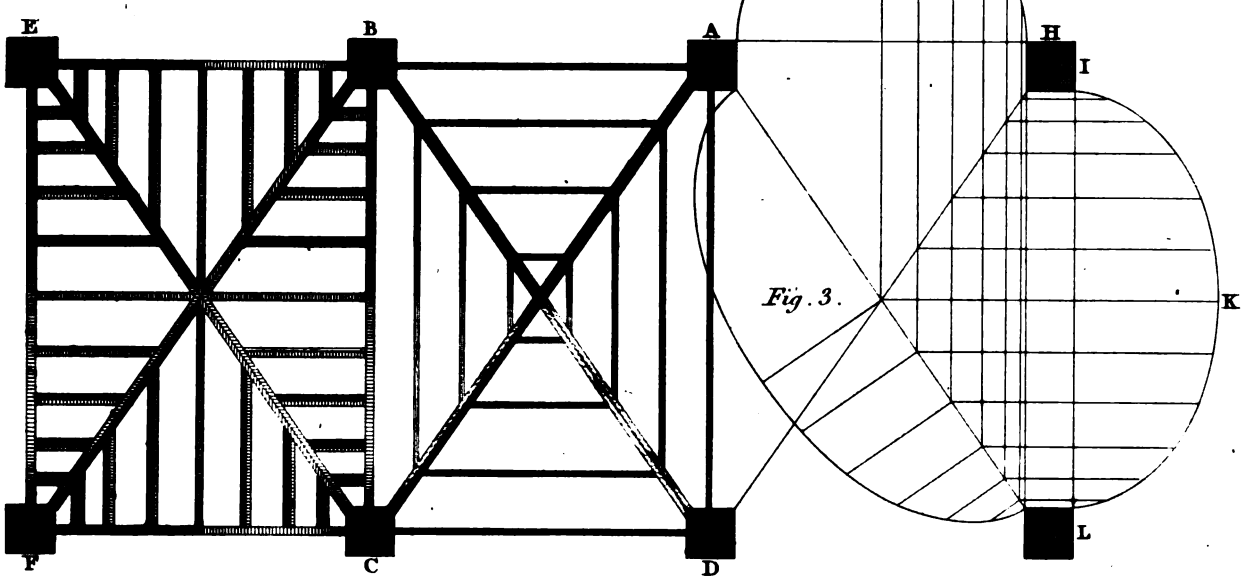

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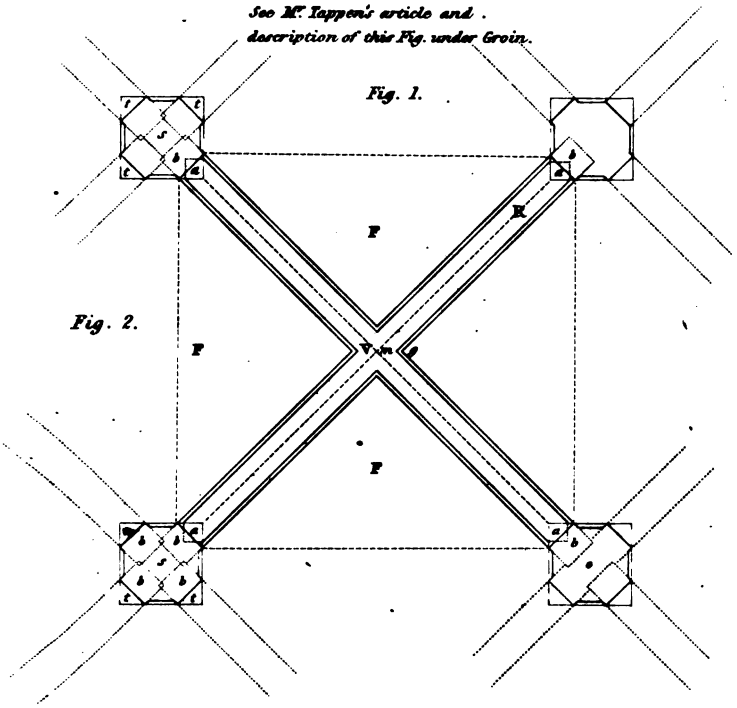
GROIN.

See Mr. Tappen's article and description of this Fig. under Groin.

Fig. 1.



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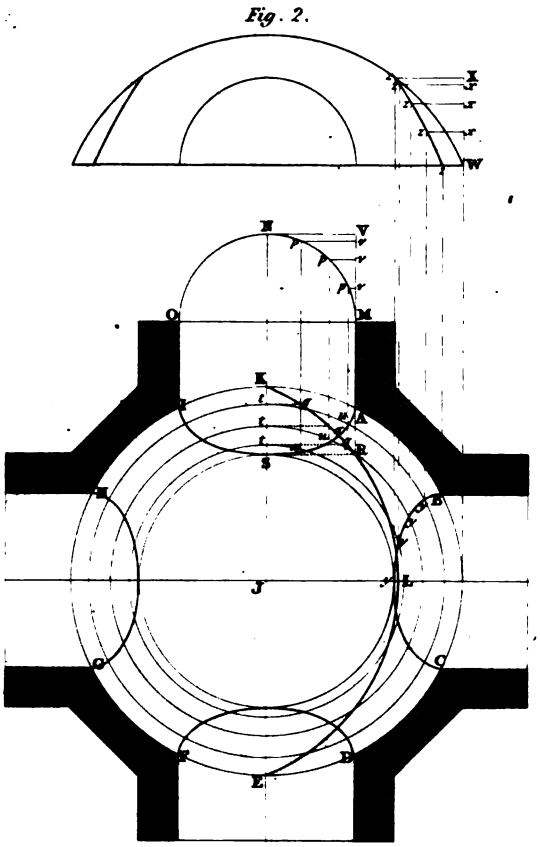

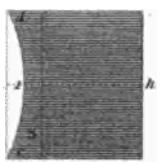

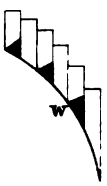

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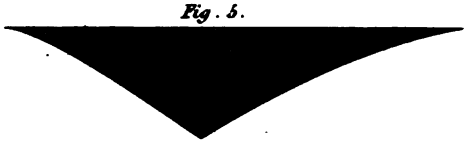

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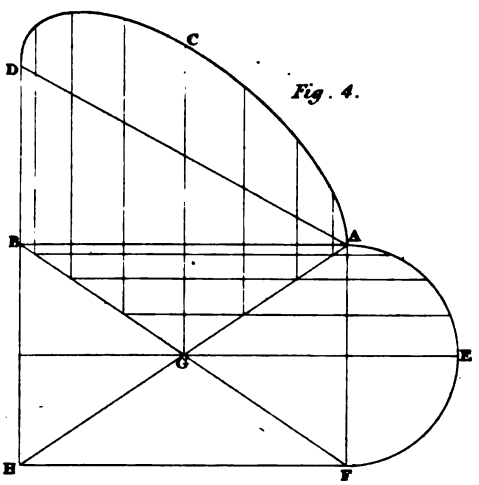

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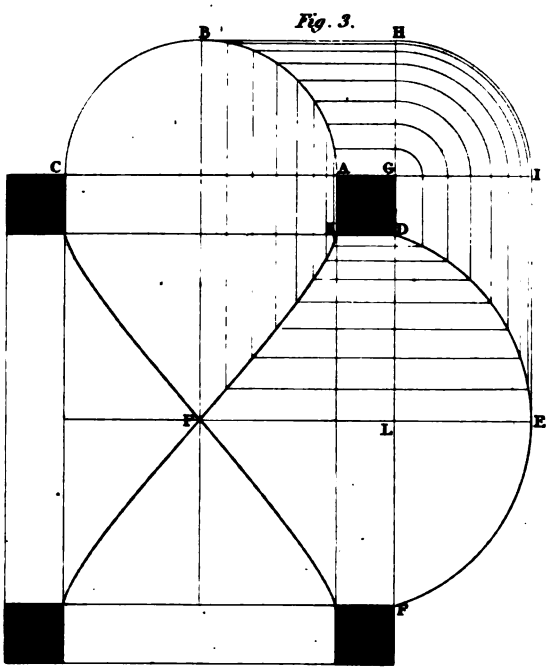

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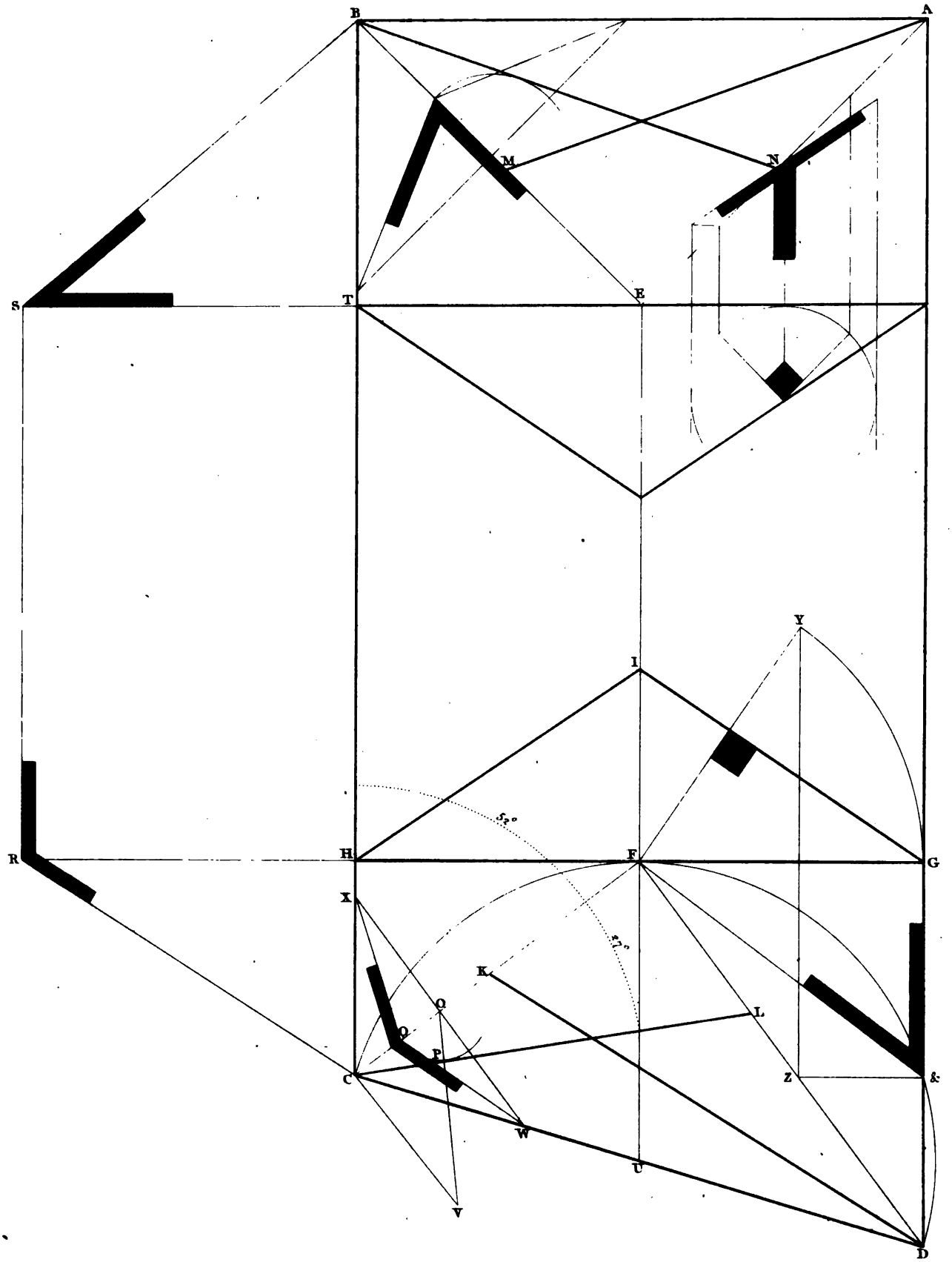

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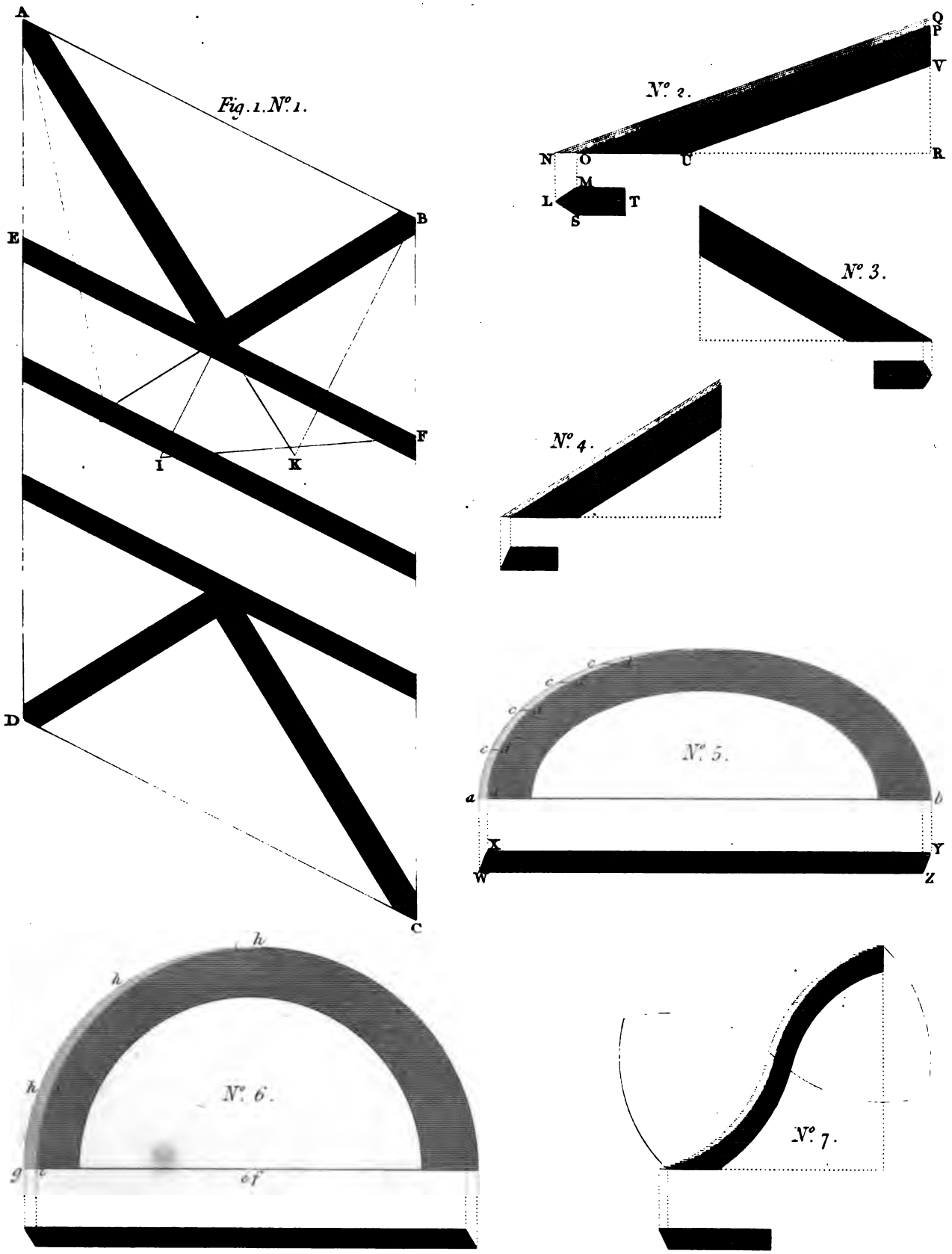

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GEOMETRICAL PRINCIPLES OF CARPENTRY.

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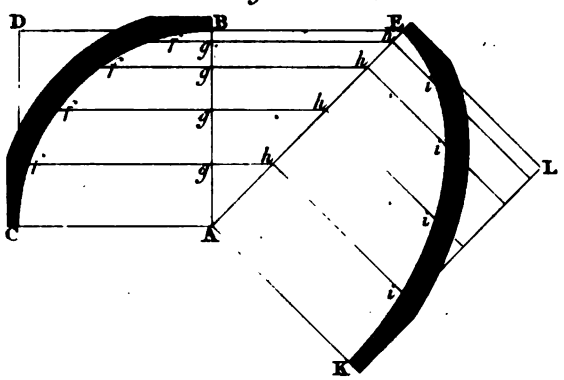

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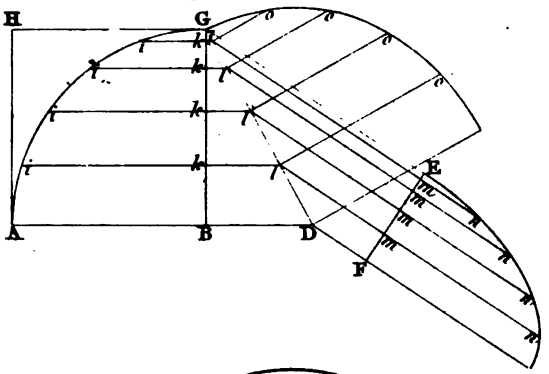

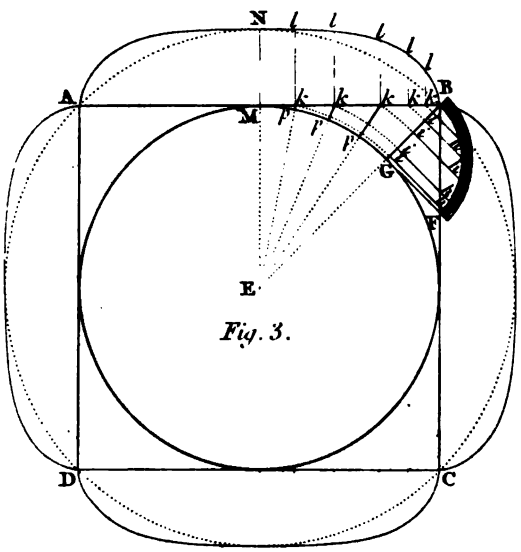

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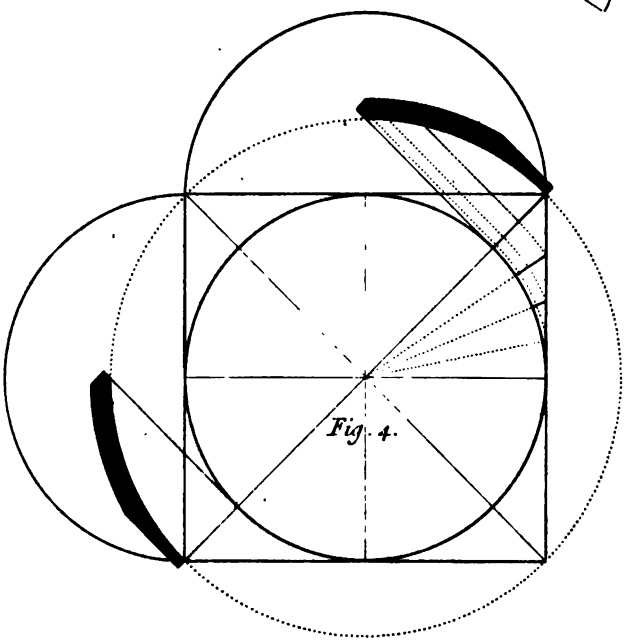

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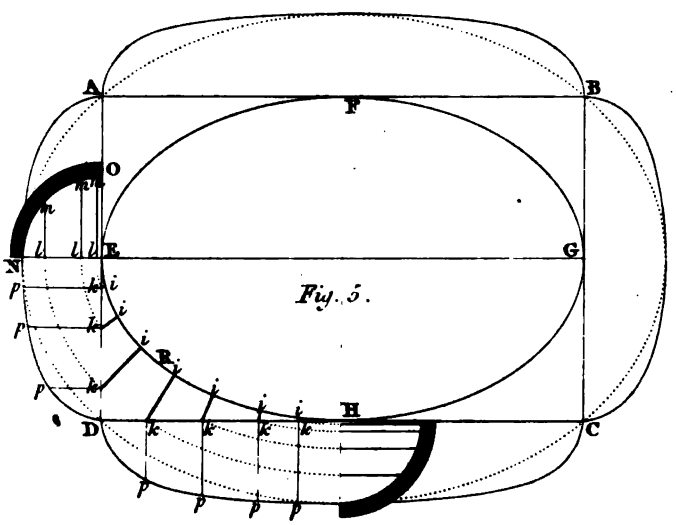

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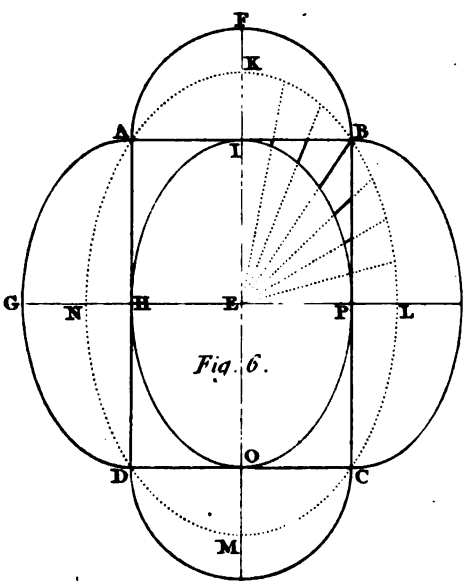

Fig. 6.

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ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

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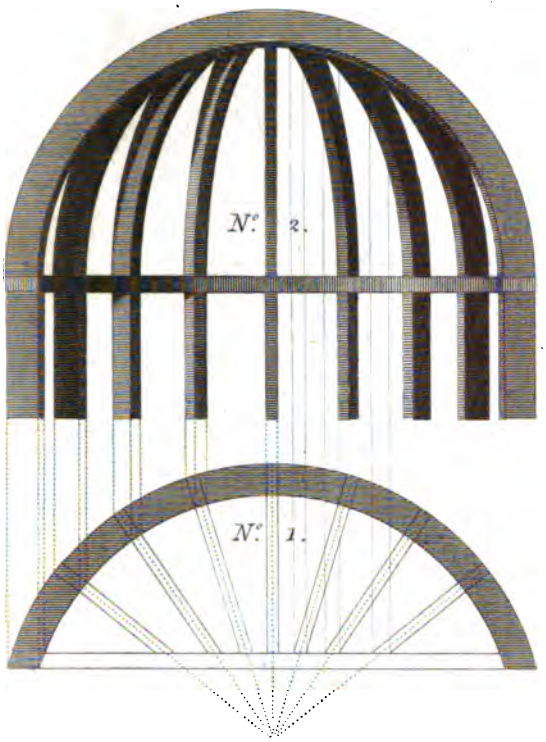

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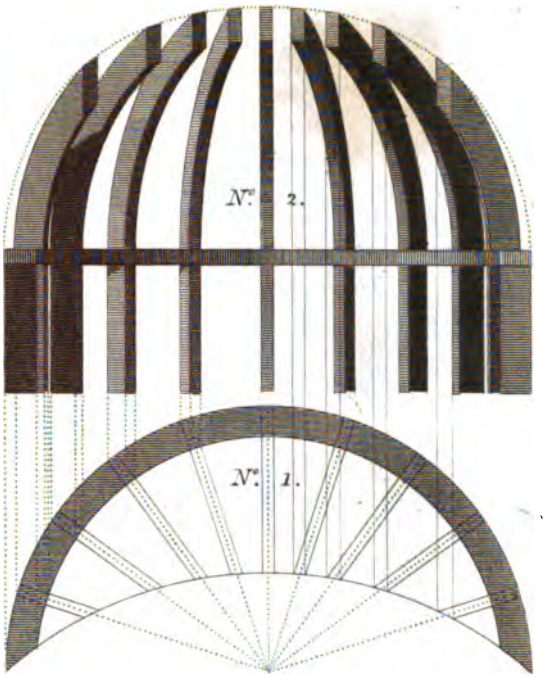

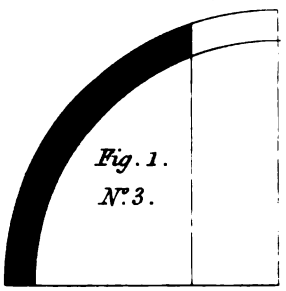

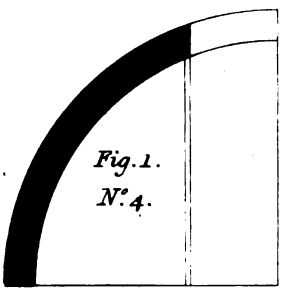

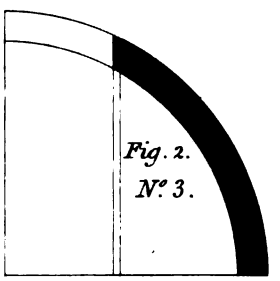

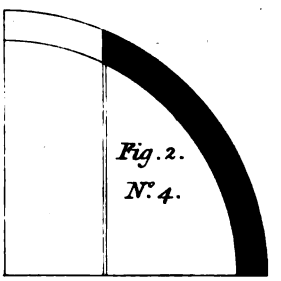

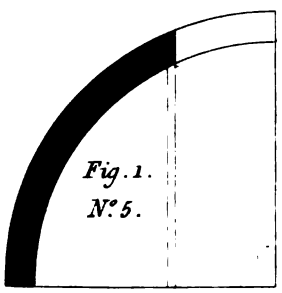

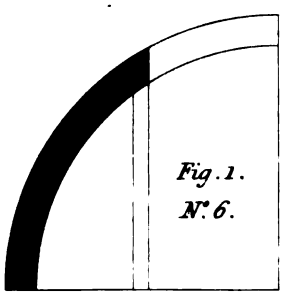

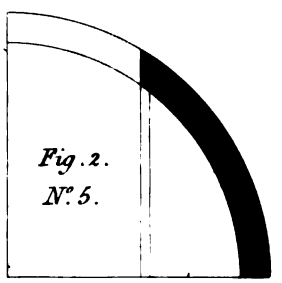

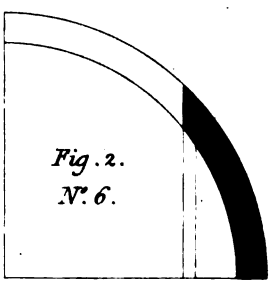

n. by P. Nicholson. Published as the Act directs, Sept.r 1.st 1805. by Longman, Hurst, Rees & Orme, Paternoster Row. Engraved by Wilson Lowry.

ARMOUR.

Ancient Bronzes.

B

A

B

C

D

C

A.D. In the Collection of Payne Knight Esq.r — B.B.C.C. In the British Museum.

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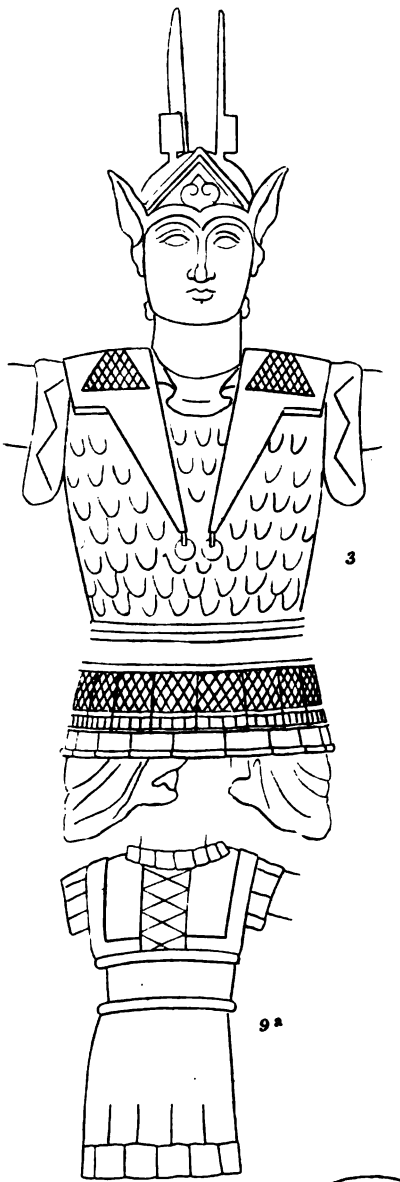
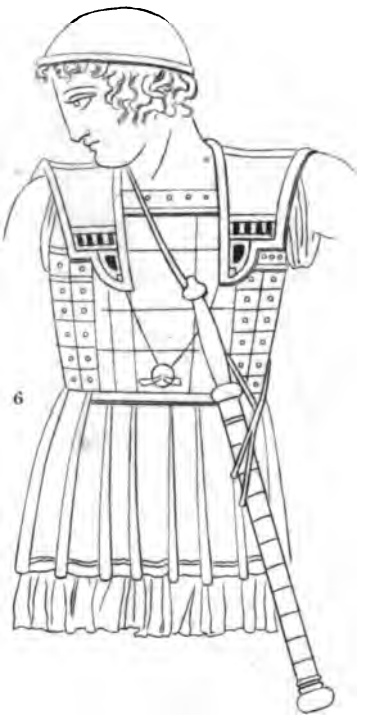
Milton fc

ARMOUR.





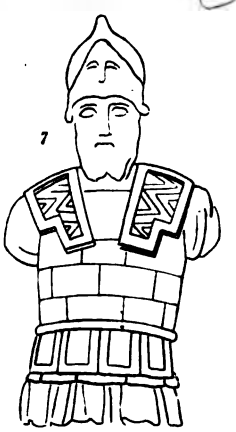


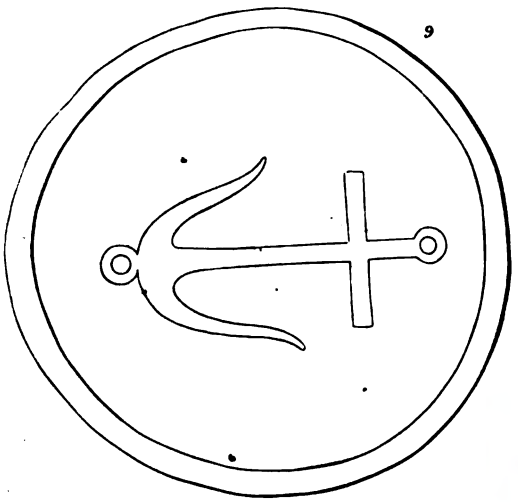
Fig.s 1 & 2 from Denon.
3.4.7 & 9 a. from the Tuscan Gallery.
5. from a Gem.
6. from Sr. Wm. Hamilton's Vases.
8. A Bronze in the British Museum.

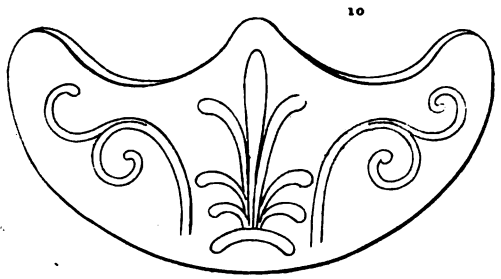
J Flaxman R.A. del

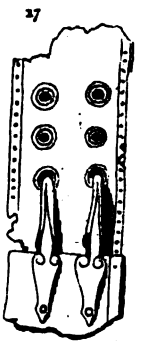
Published as the Act directs Jan.y 1806 by Longman & Rees Paternoster Row.

Wilson, Sculp.

ARMOUR.







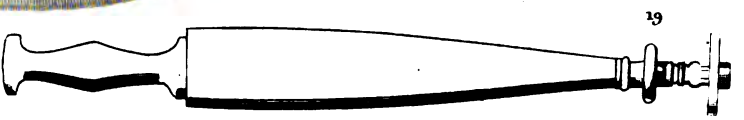


Fig. 12. 15 and 20 from Bartoli's Triumphal Arches.

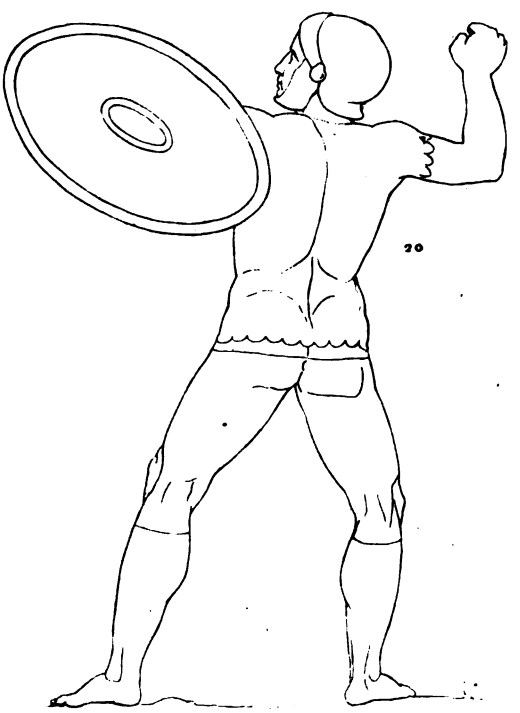


Fig. 11.13.14.16.17.18.19 in the British Museum.
9 & 10 from Sr W.m Hamilton's Vases.

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Baker, Sculp

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ARTILLERY.

BATTERING RAM and CATAPULTA.

PLATE I. ARIES, or Battering Ram.

PLATE II. CATAPULTA, used by Lord Heathfield, at the Siege of Gibralter.

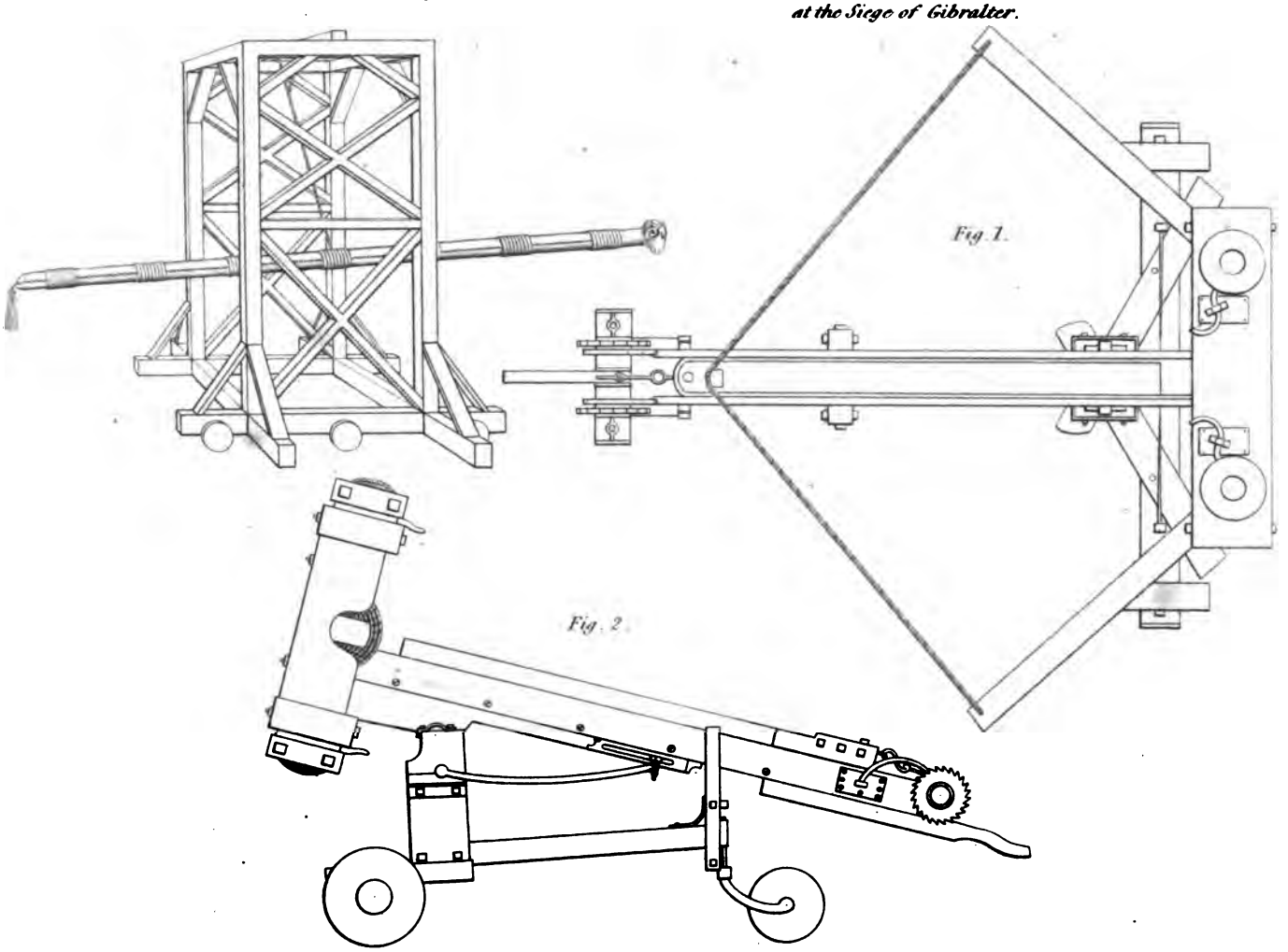


Fig. 3.

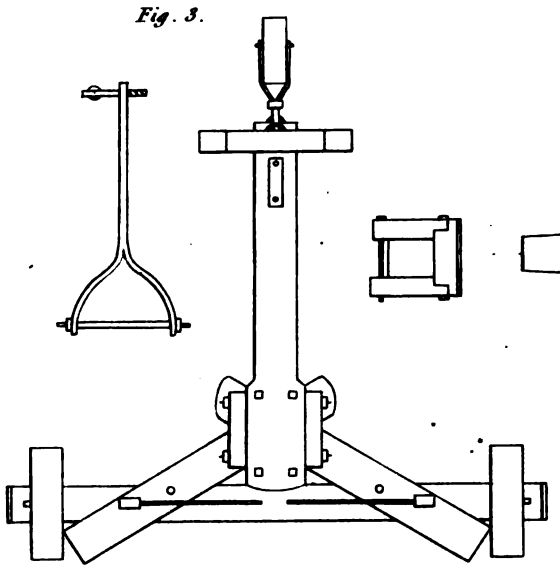
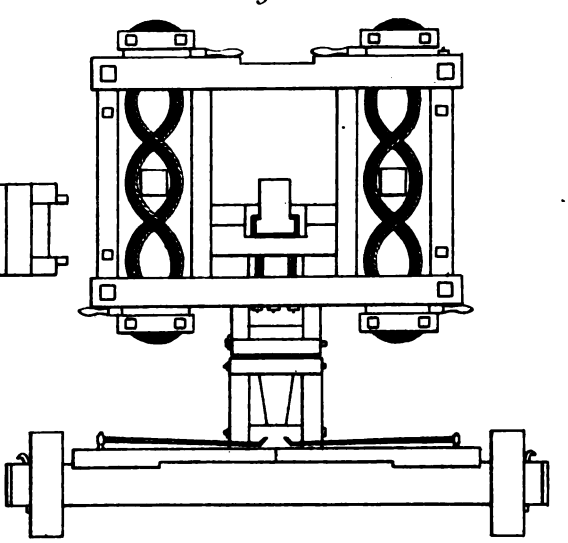


Fig. 4.



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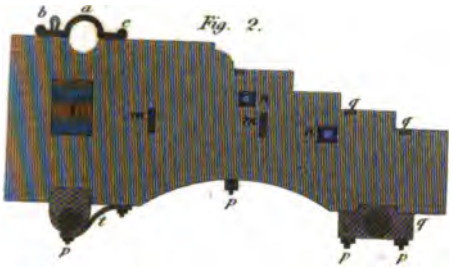
ARTILLERY.

CARRIAGES.

PLATE I.

Fig. 2.



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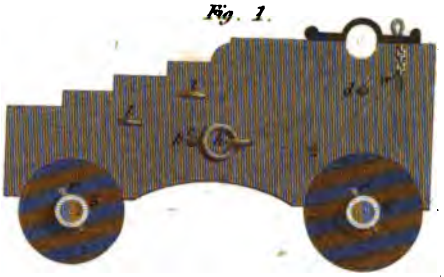
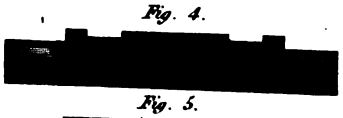


Fig. 4.



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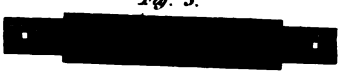
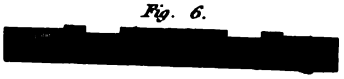


Fig. 6.



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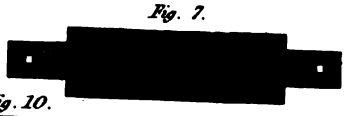
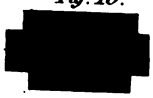


Fig. 10.



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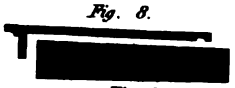
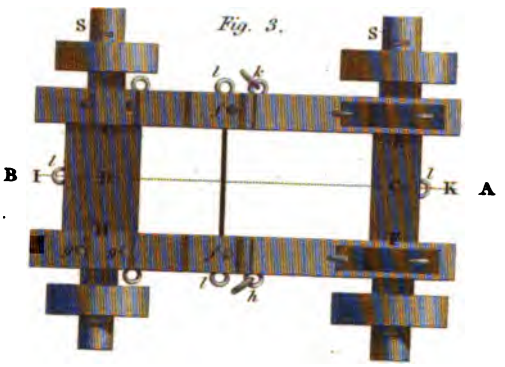


Fig. 9.

Fig. 3.



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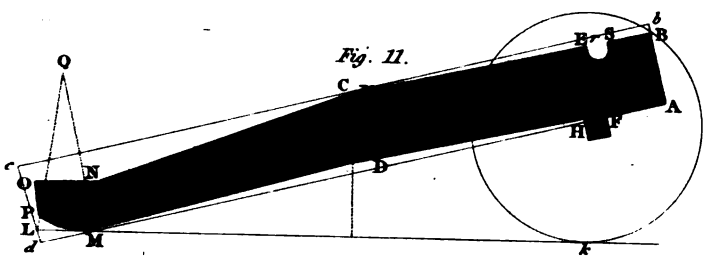

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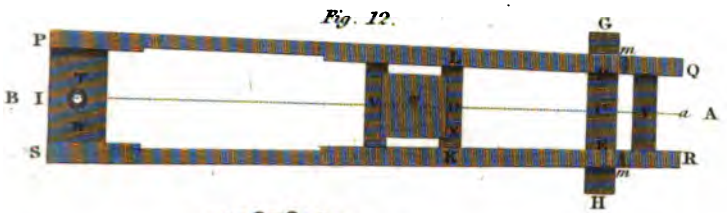

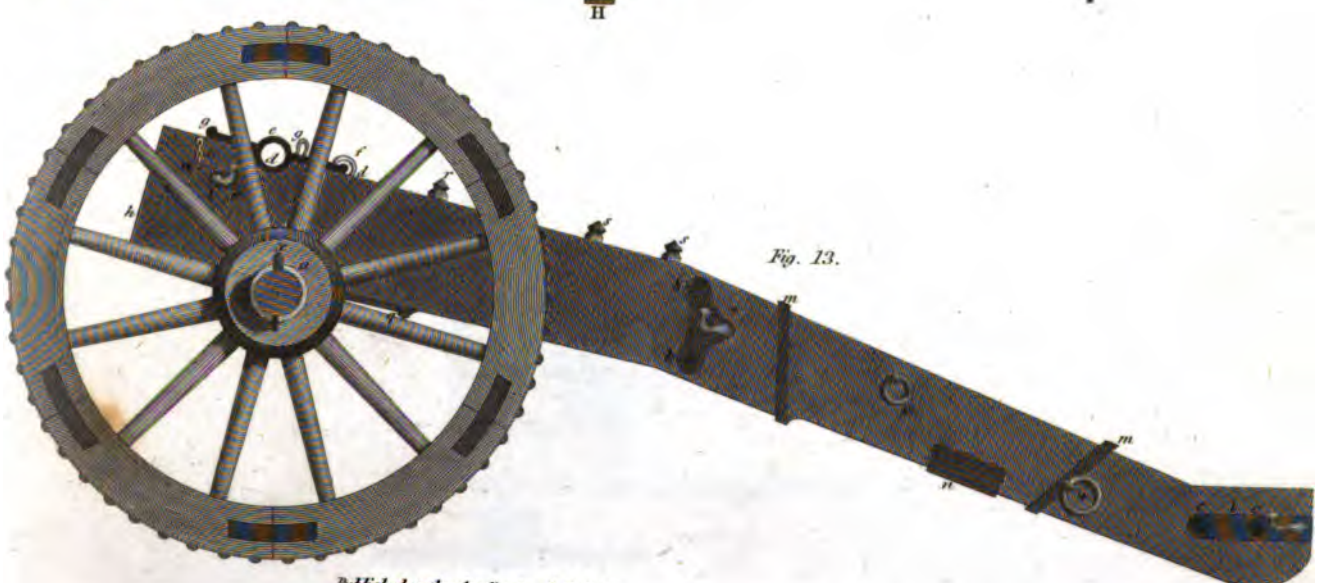

Fig. 13.

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CARRIAGE.

Fig. 14.

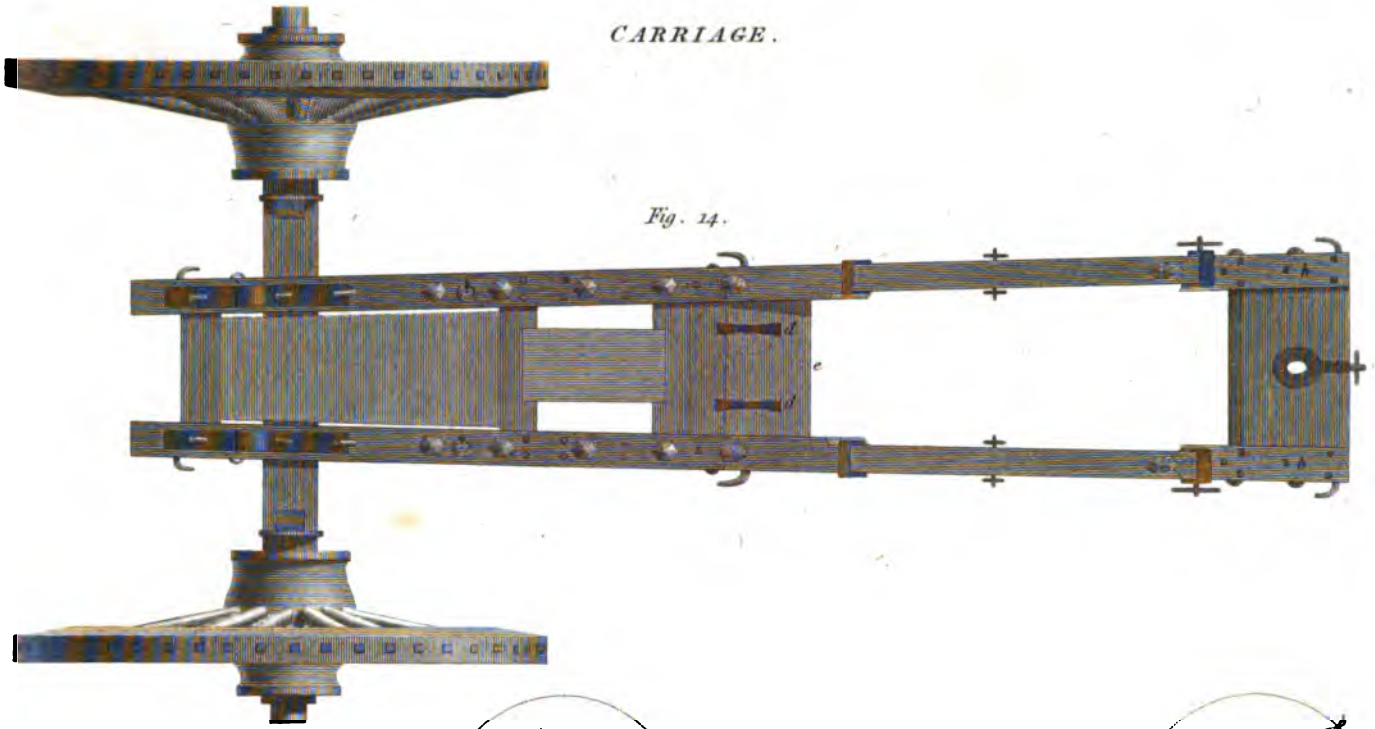
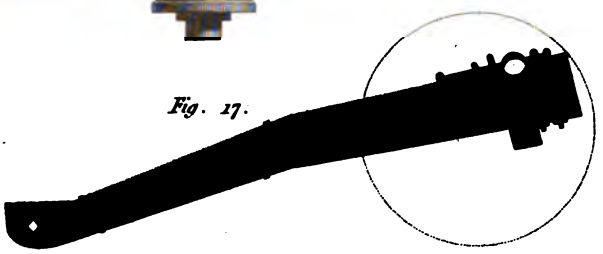


Fig. 17.



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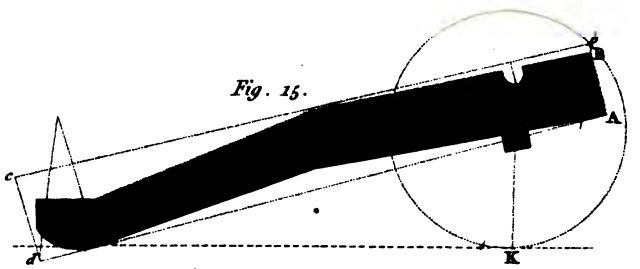

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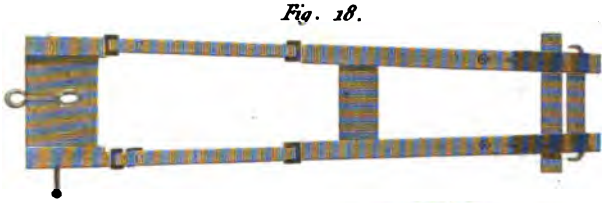

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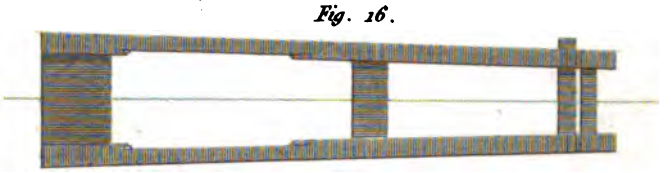

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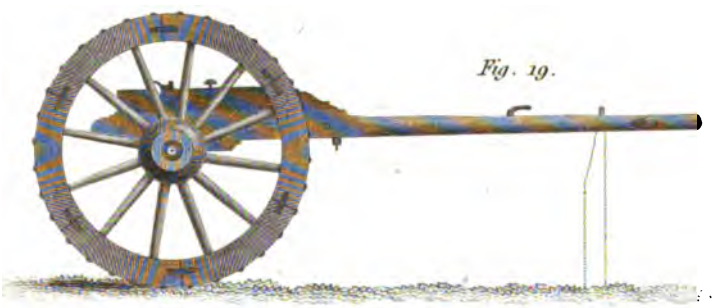

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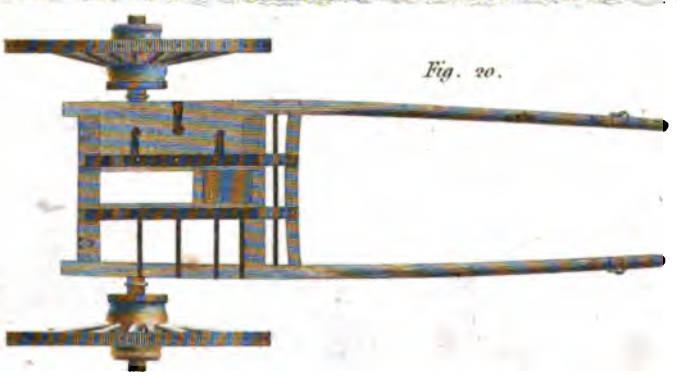

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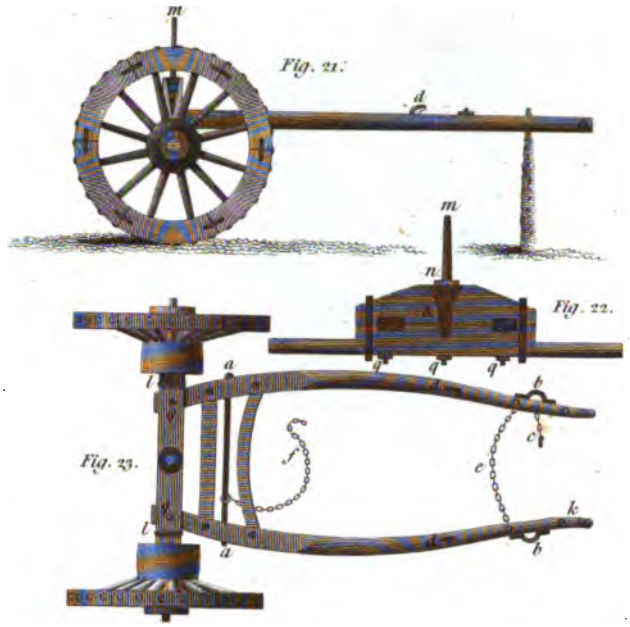
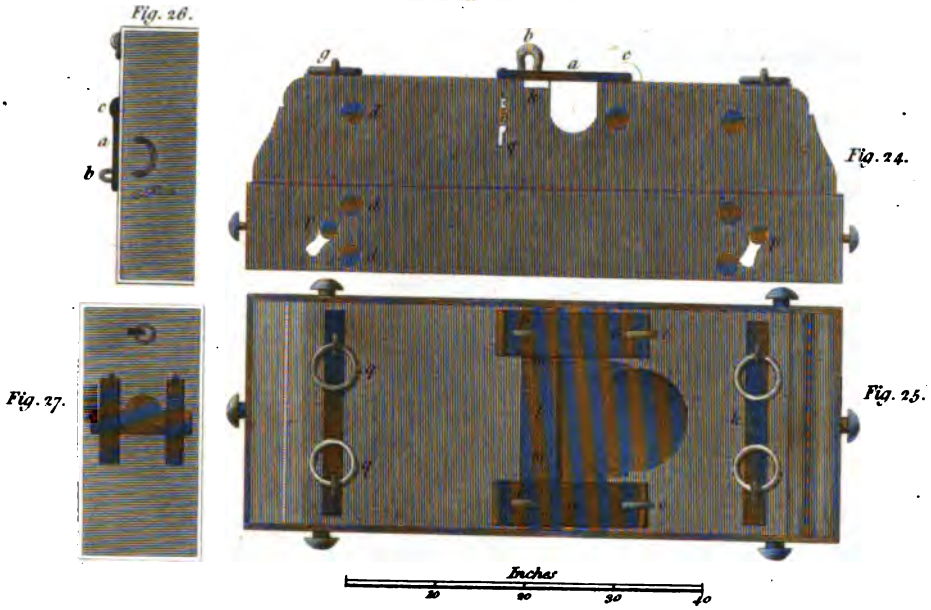
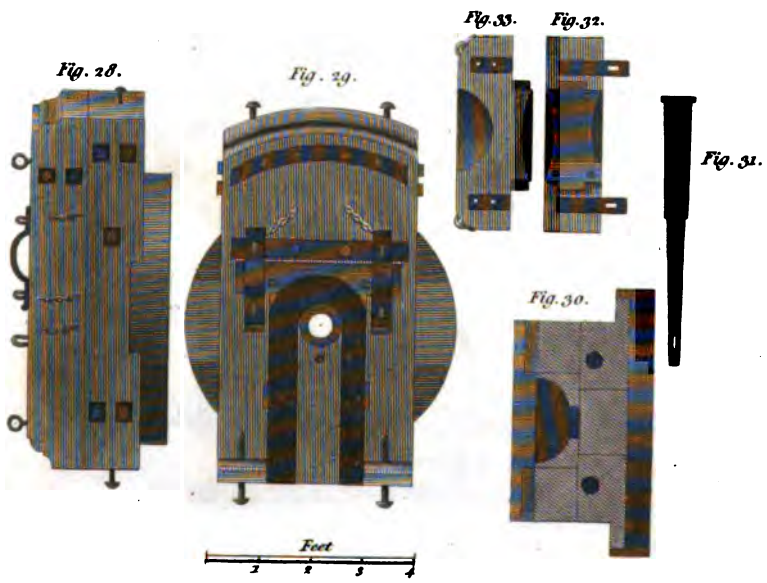
CARRIAGES.







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CARRIAGES.

Fig. 34.

Fig. 35.

Fig. 38.

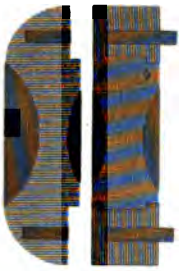
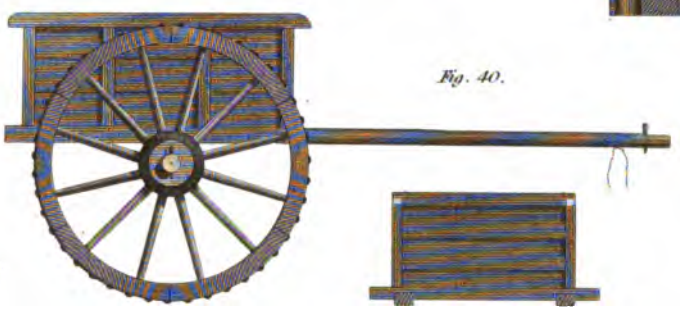


Fig. 39.

Fig. 37.

Fig. 36.

Fig. 40.



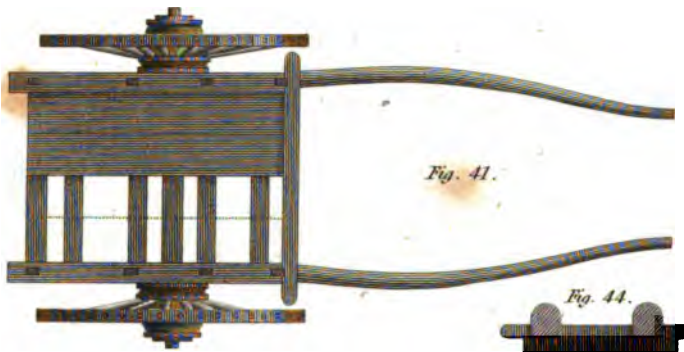


Fig. 41.

Fig. 44.

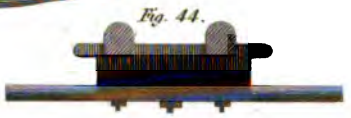


Fig. 42.

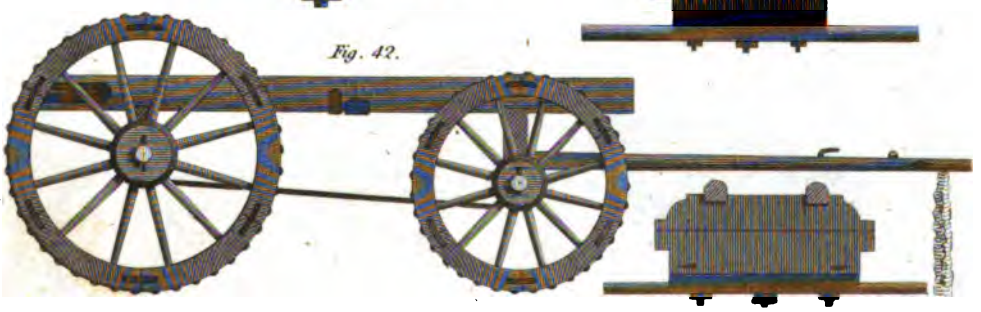
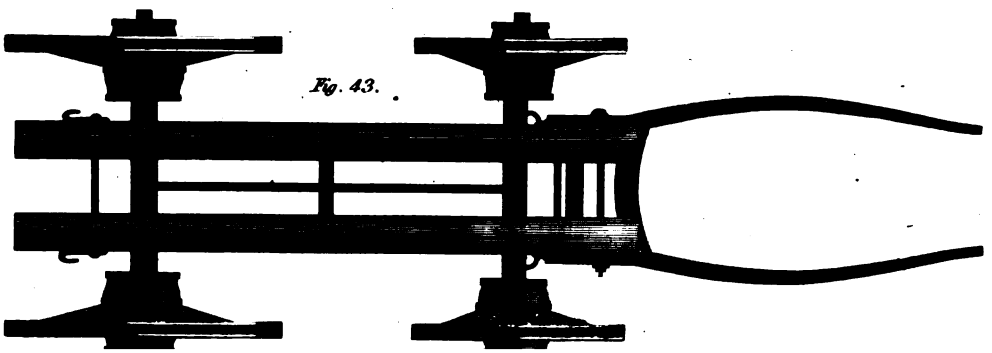
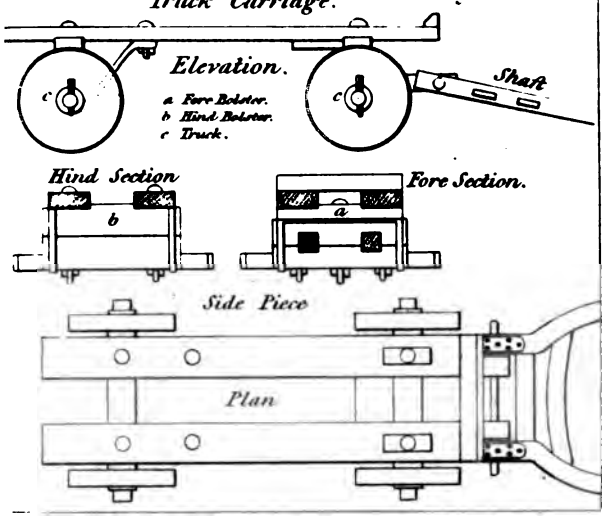


Fig. 43.



Truck Carriage. Fig. 45 to 48.



Ammunition Waggon. Fig. 49 to 52.

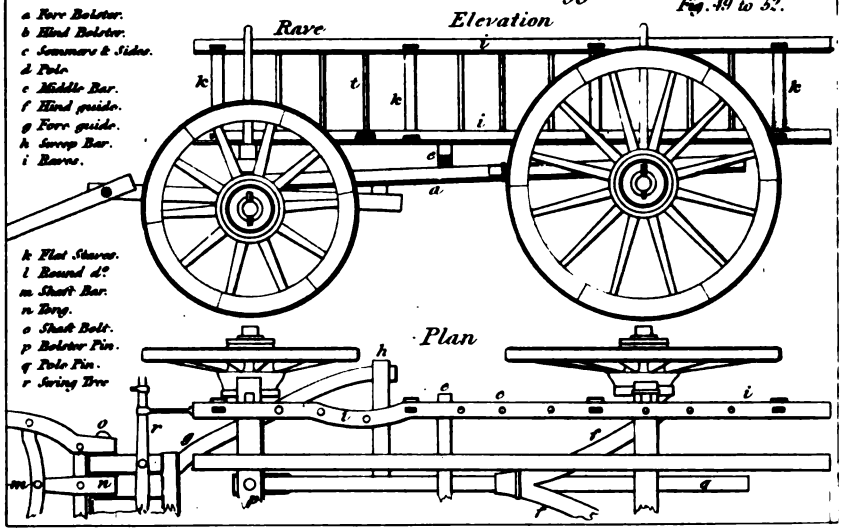
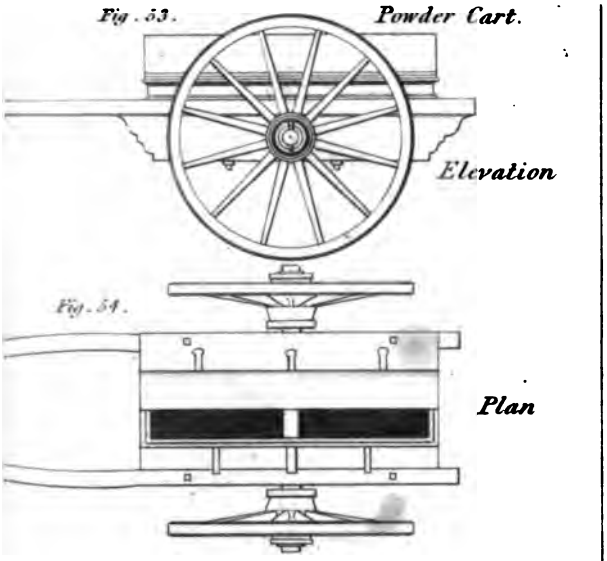
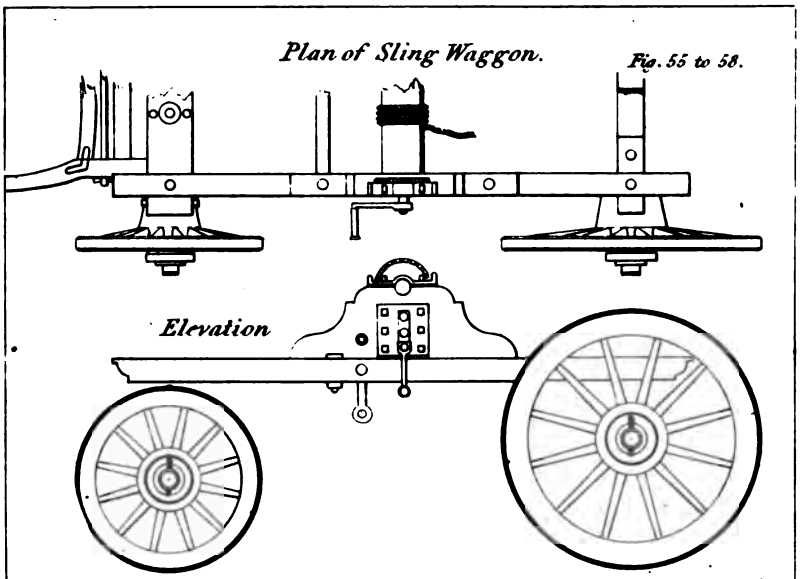


Fig. 53. Powder Cart.



Plan of Sling Waggon. Fig. 55 to 58.



Elevation of Sling Cart.

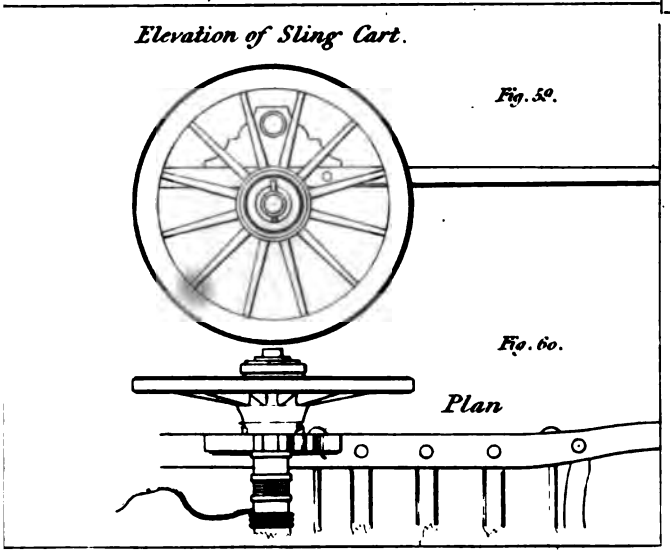
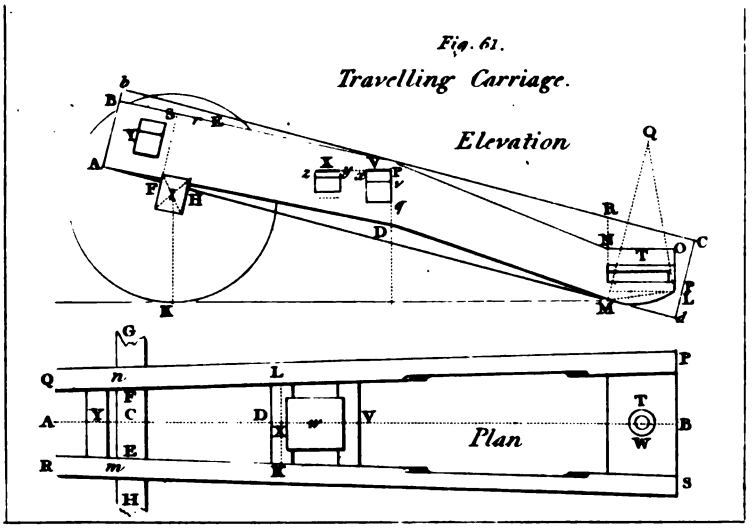


Fig. 61. Travelling Carriage.



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ASTRONOMY.

ABERRATION

Fig. 1.

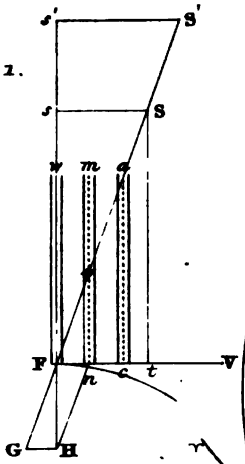


Fig. 2.

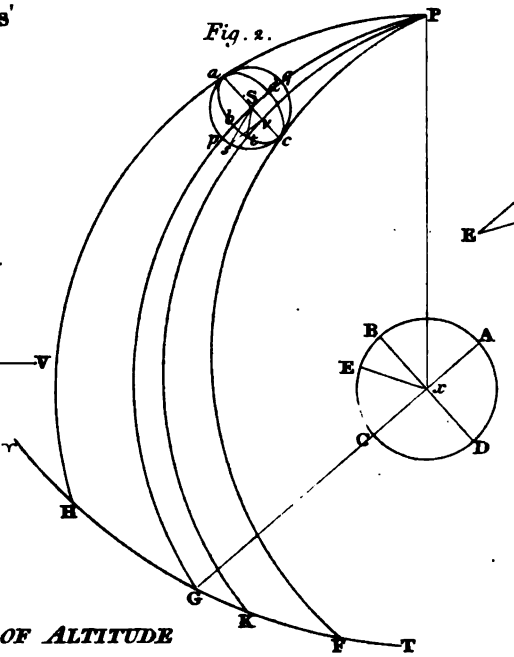
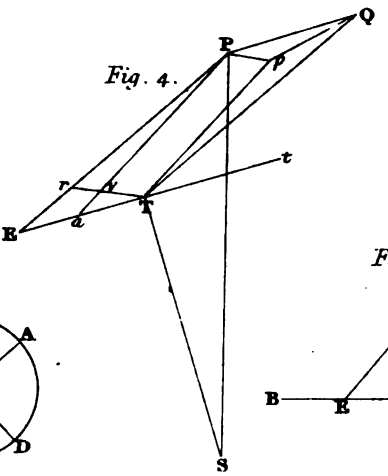
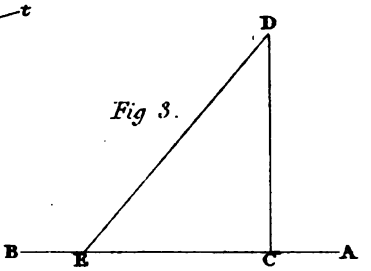


Fig. 4.



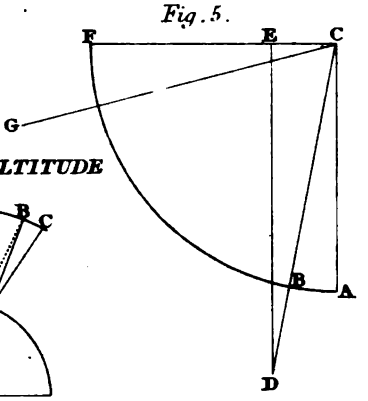
CULMINATION

Fig. 3.



ALTITUDE

Fig. 5.



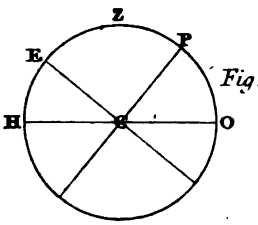
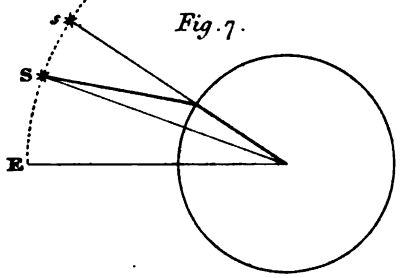


Fig. 6.

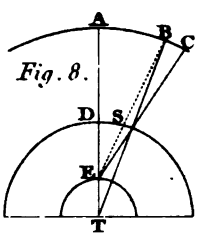
REFRACTION OF ALTITUDE

Fig. 7.



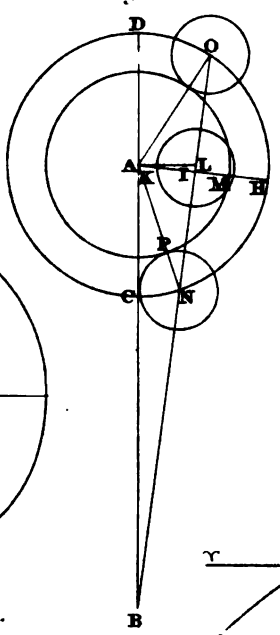
PARALLAX OF ALTITUDE

Fig. 8.



ARC

Fig. 11.



ANOMALY

Fig. 9.

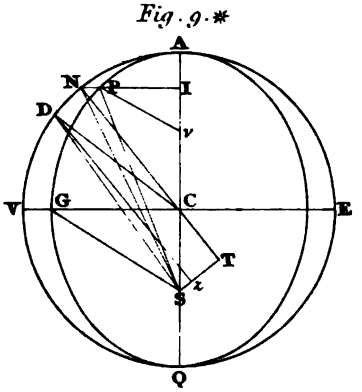
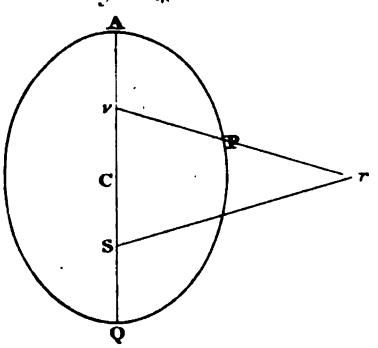
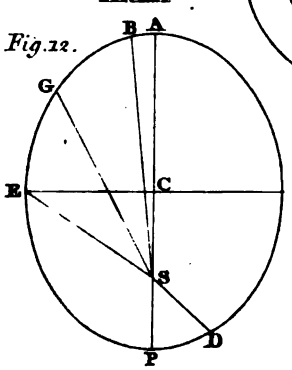


Fig. 10.



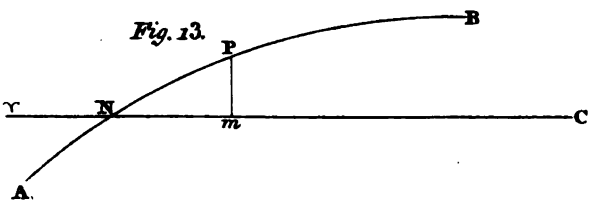
AREA

Fig. 12.



ARGUMENT

Fig. 13.



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GENERAL VIEW OF THE SOLAR SYSTEM.

Fig. 9

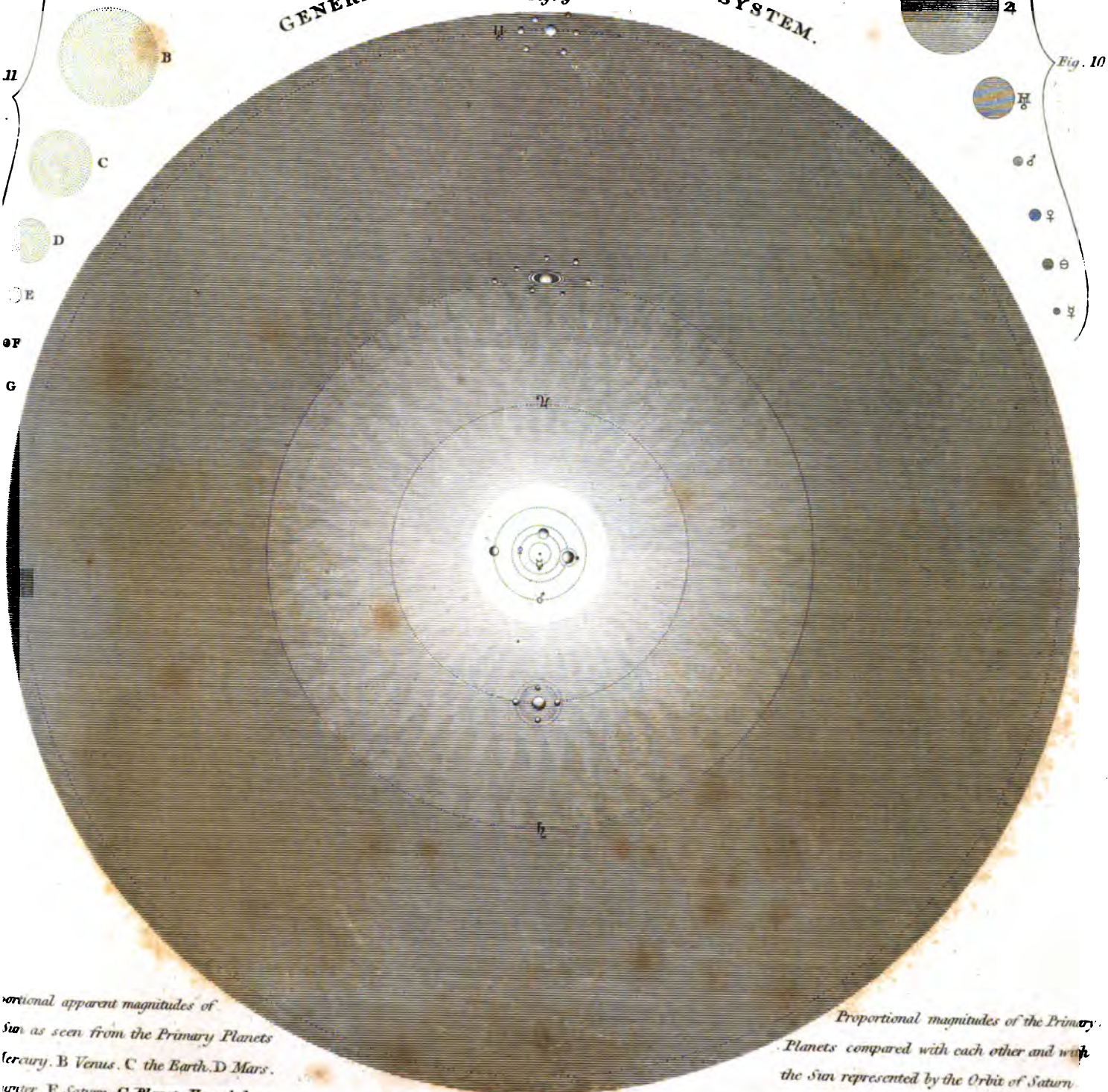

Fig. 10

...portional apparent magnitudes of ... Sun as seen from the Primary Planets ... Mercury. B Venus. C the Earth. D Mars. ...piter. F Saturn. G Planet Herschel or ...rium Sidus.

Proportional magnitudes of the Primary Planets compared with each other and with the Sun represented by the Orbit of Saturn in Fig. 9 ♄ Saturn. ♃ Jupiter. ♅ Herschel. ♂ Mars. ☉ the Earth. ♀ Venus. ☿ Mercury.

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Wilson, Lowry, sculp.

ASCENSION. &c

Fig. 15.

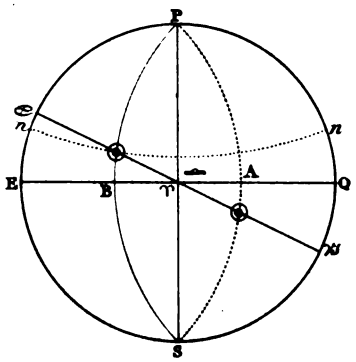


Fig. 16.

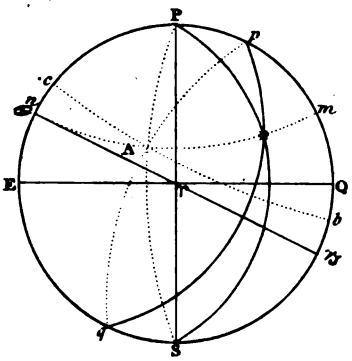
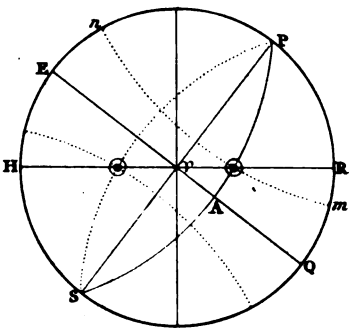


Fig. 17.

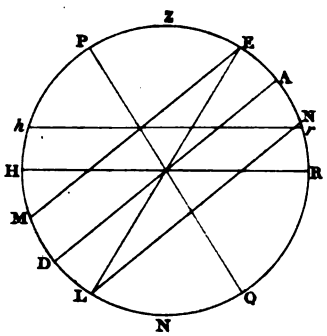


Armillary Sphere.

Fig. 14.

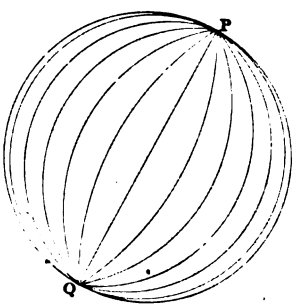
AXIS.

Fig. 18.



AXIS.

Fig. 19.



Chronology.

Fig. 22.

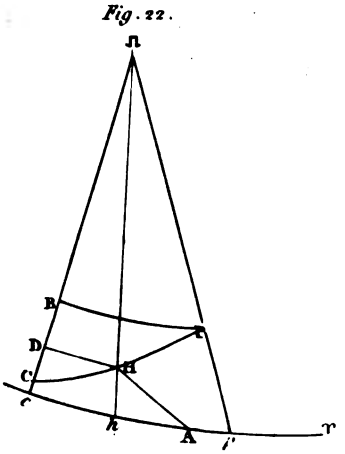
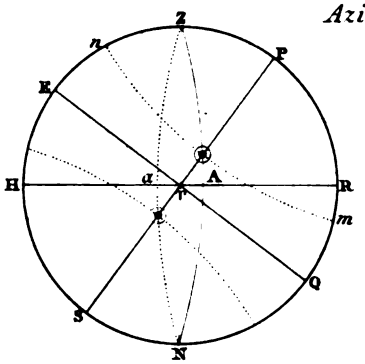
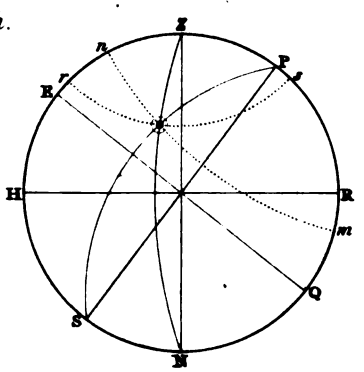


Fig. 20.



Azimuth.

Fig. 21.



J. Farey delin. Published as the Act directs, 1811, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Engraved by Wilson Lowry.

COMET

Fig. 23.

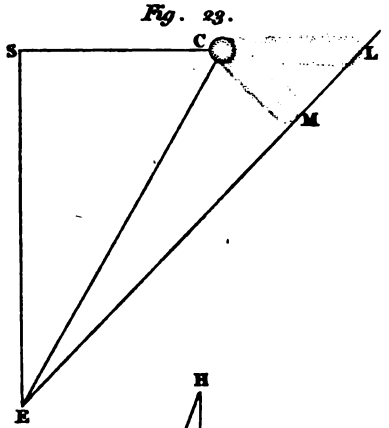
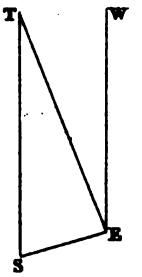


Fig. 24.



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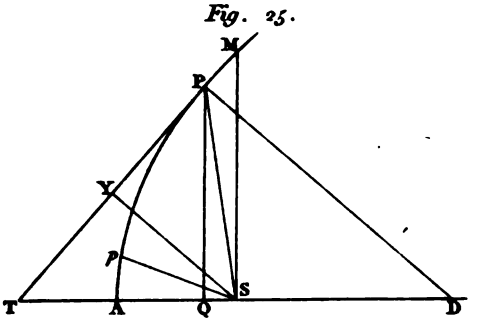

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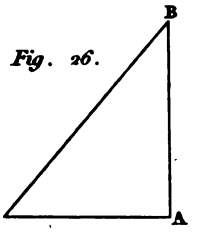

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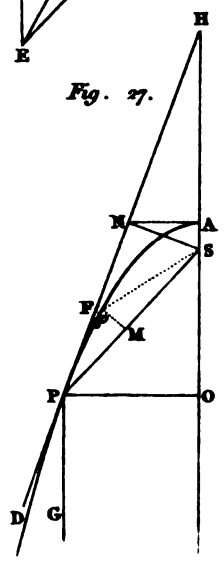
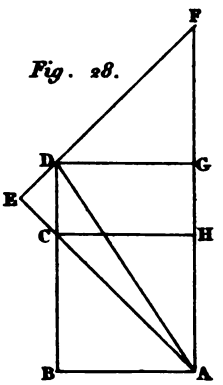


Fig. 28.



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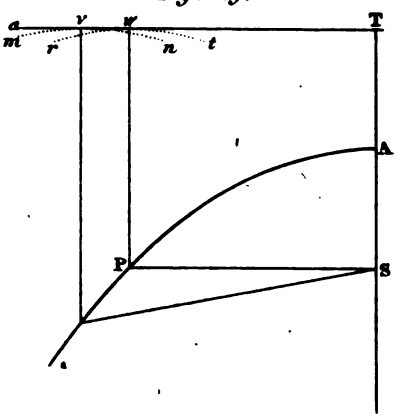

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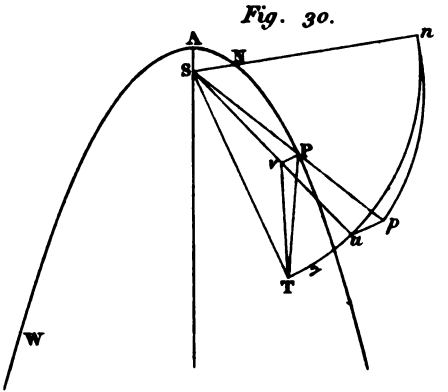

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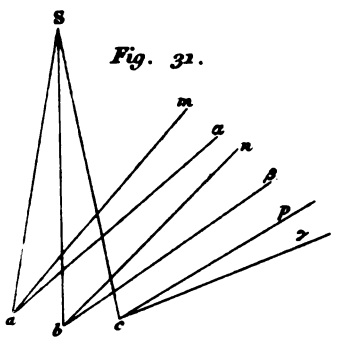

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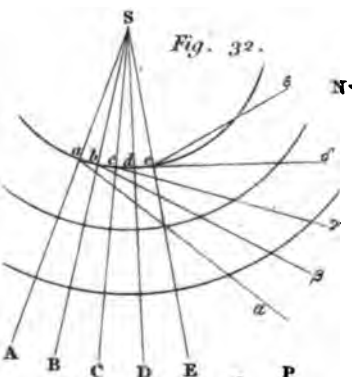

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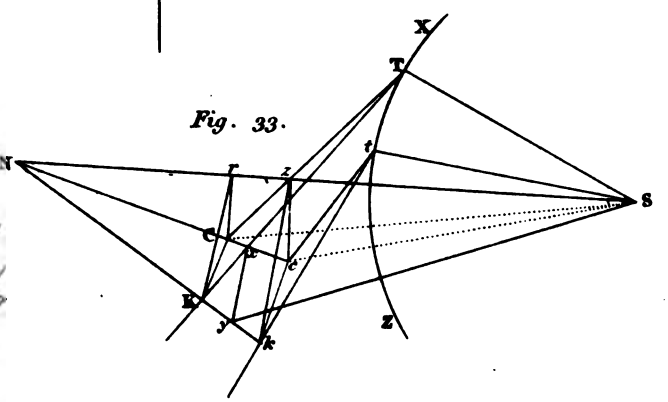

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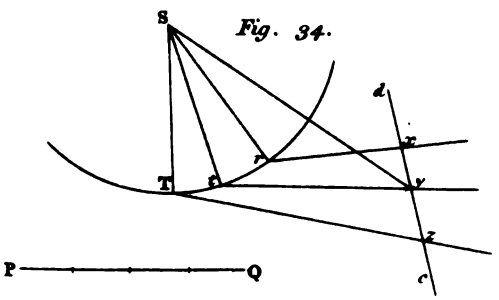
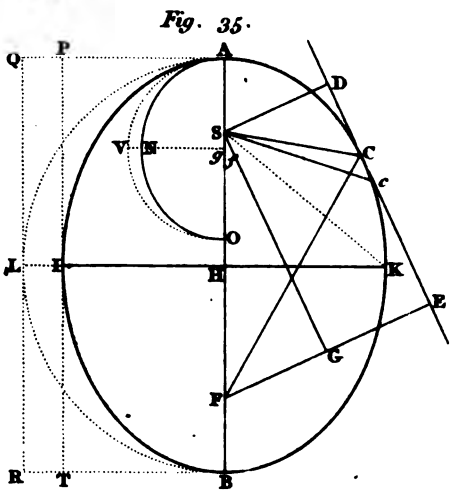


Fig. 35.



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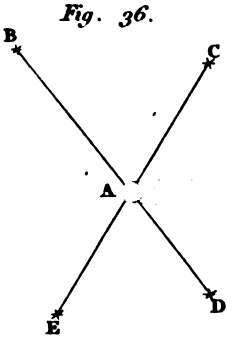

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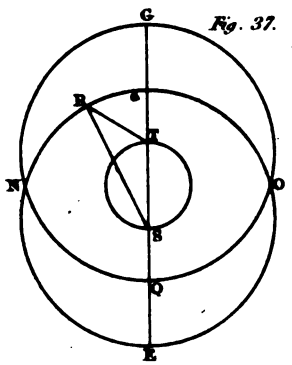
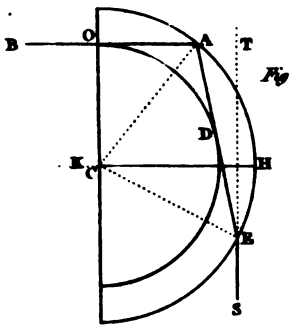
COMMUTATION

Fig. 37.



CREPUSCULUM

Fig. 38.



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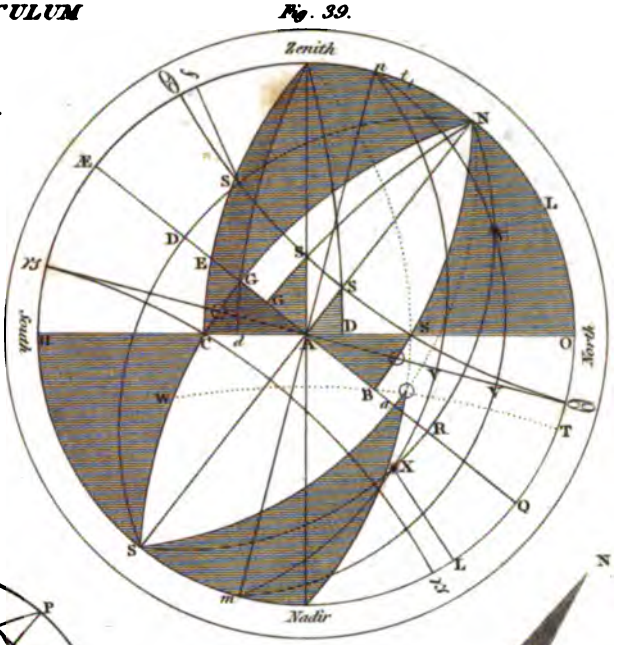

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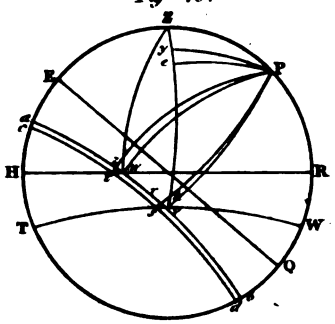

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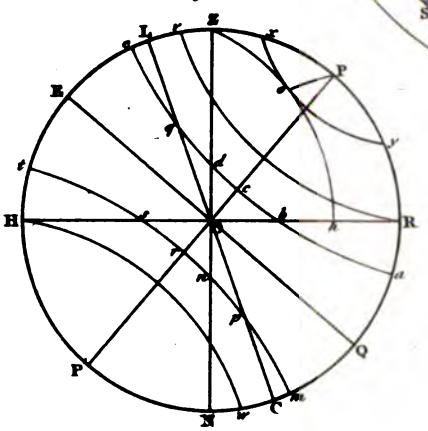
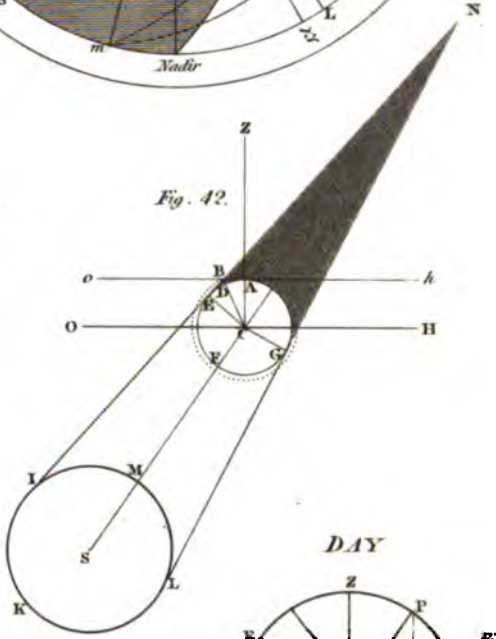
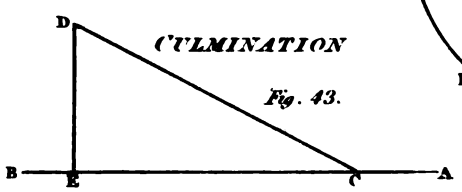


Fig. 42.



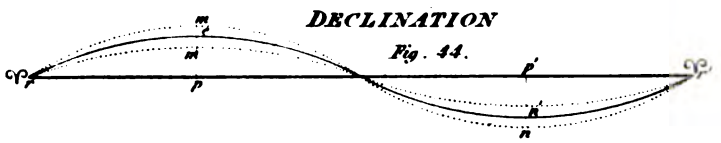
CULMINATION

Fig. 43.



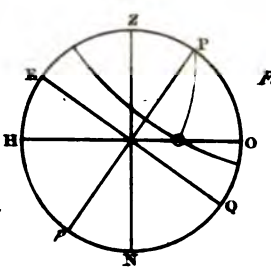
DECLINATION

Fig. 44.



DAY

Fig. 43.



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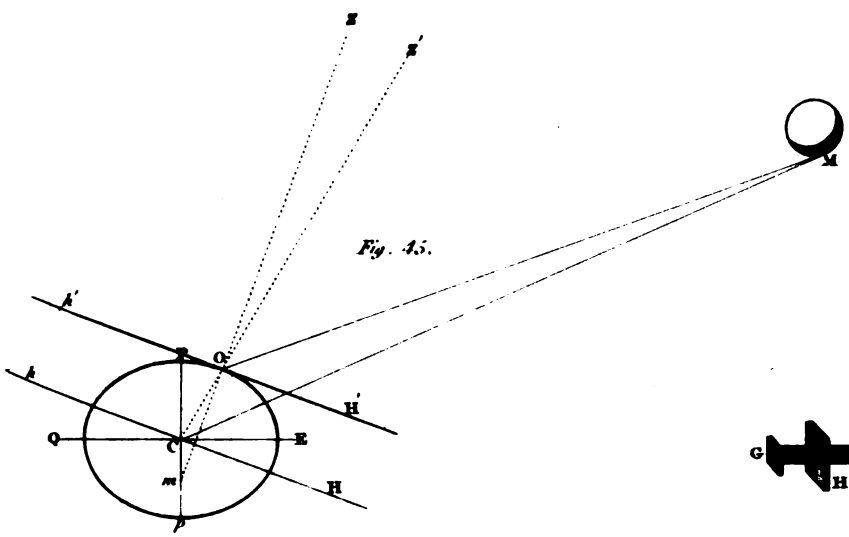
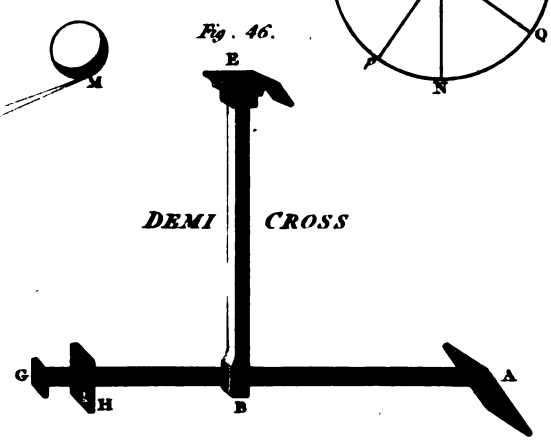


Fig. 46.



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ASTRONOMY.

DEGREE.

Fig. 47.

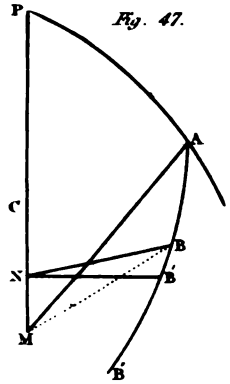


Fig. 48.

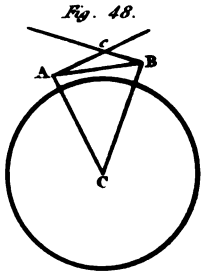


Fig. 49.

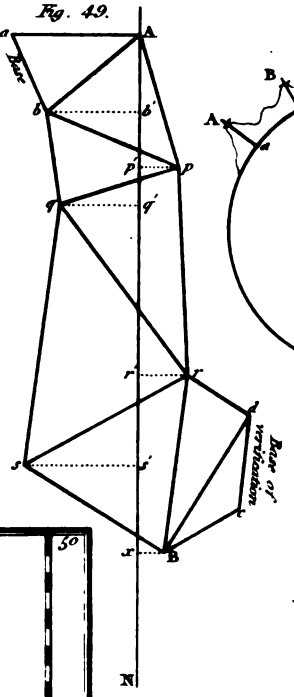


Fig. 50.

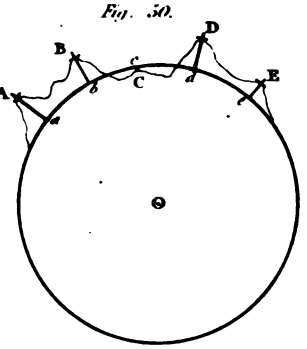


Fig. 51.

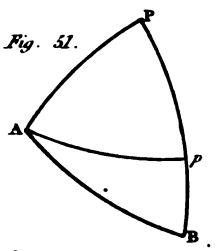


Fig. 52.

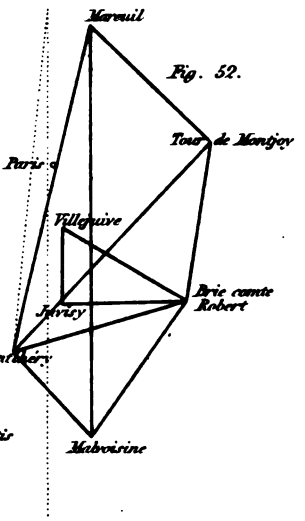


Fig. 53.

DEGREE measured in 1736.

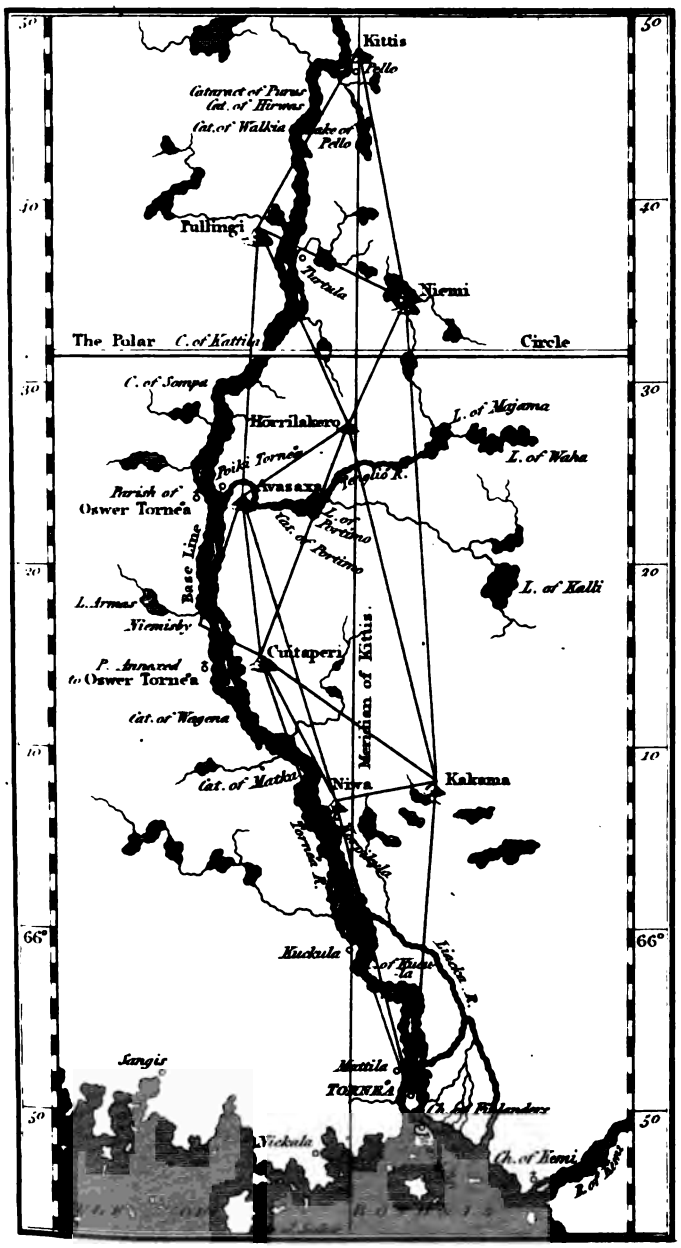
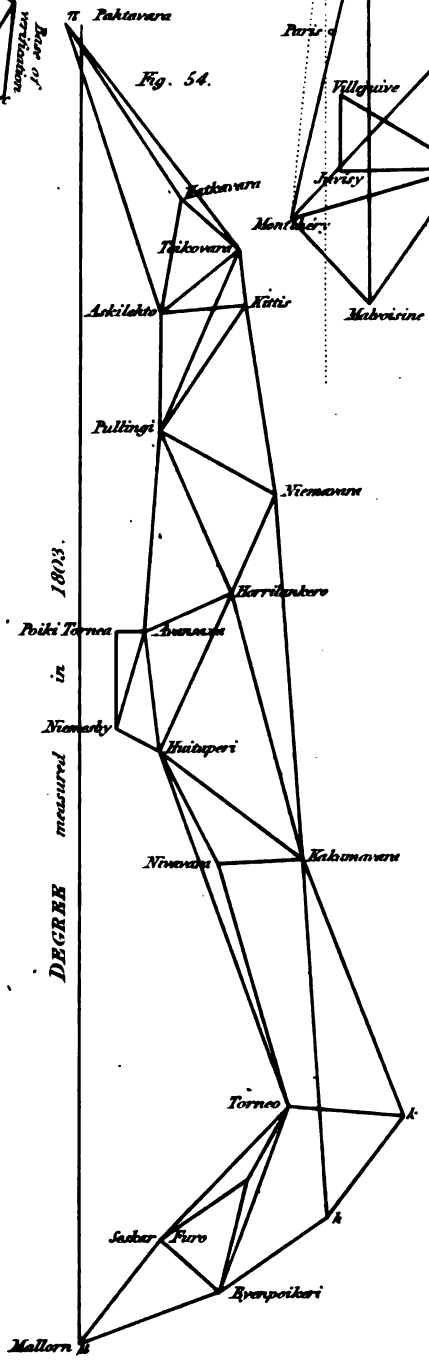


Fig. 54.

DEGREE measured in 1803.



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DEGREE.

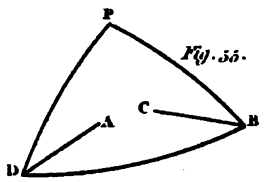


Fig. 56.

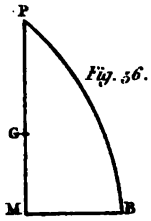


Fig. 56.

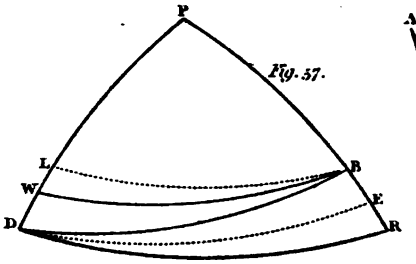
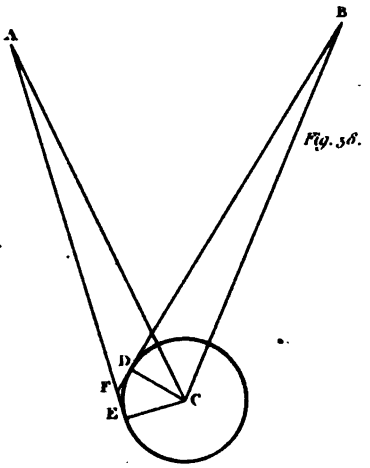


Fig. 57.



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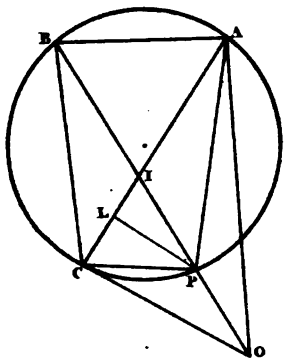

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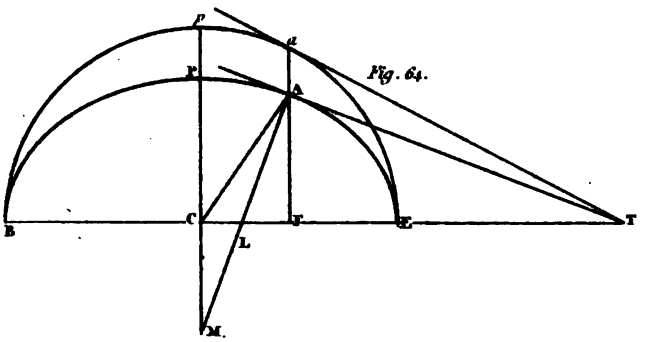

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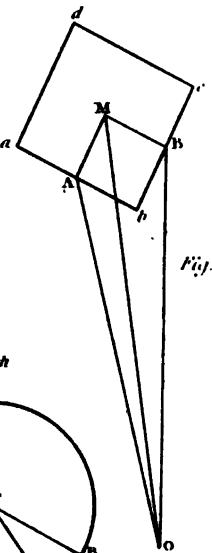

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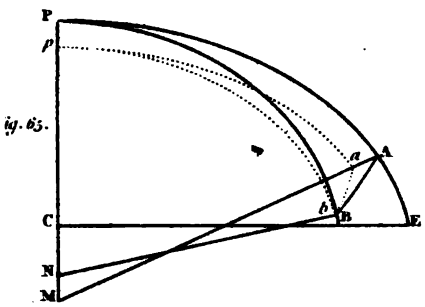

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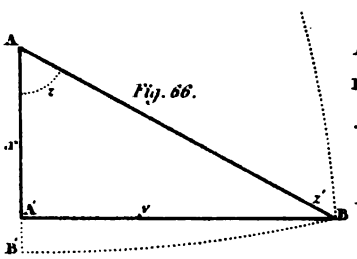

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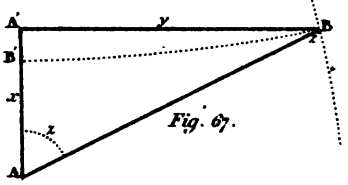
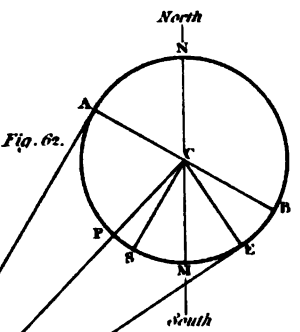


Fig. 67.



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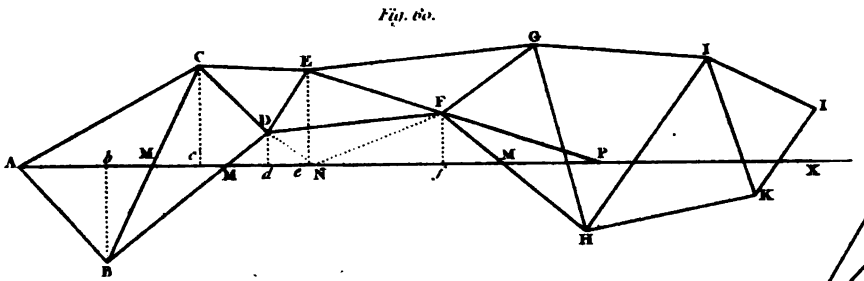

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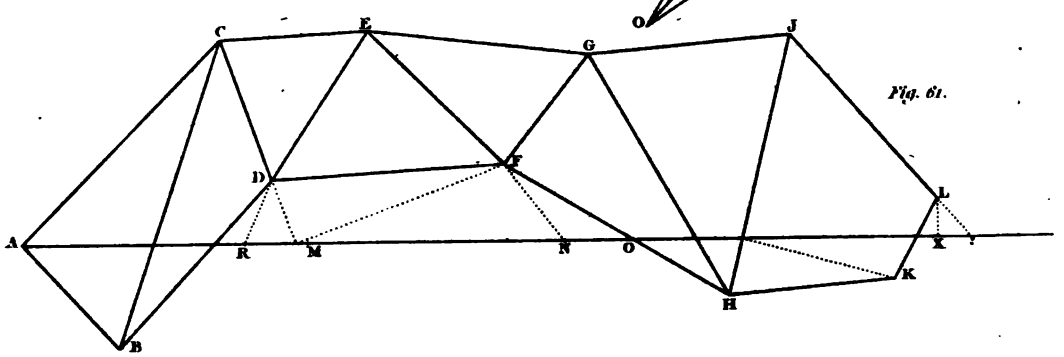

Fig. 61.

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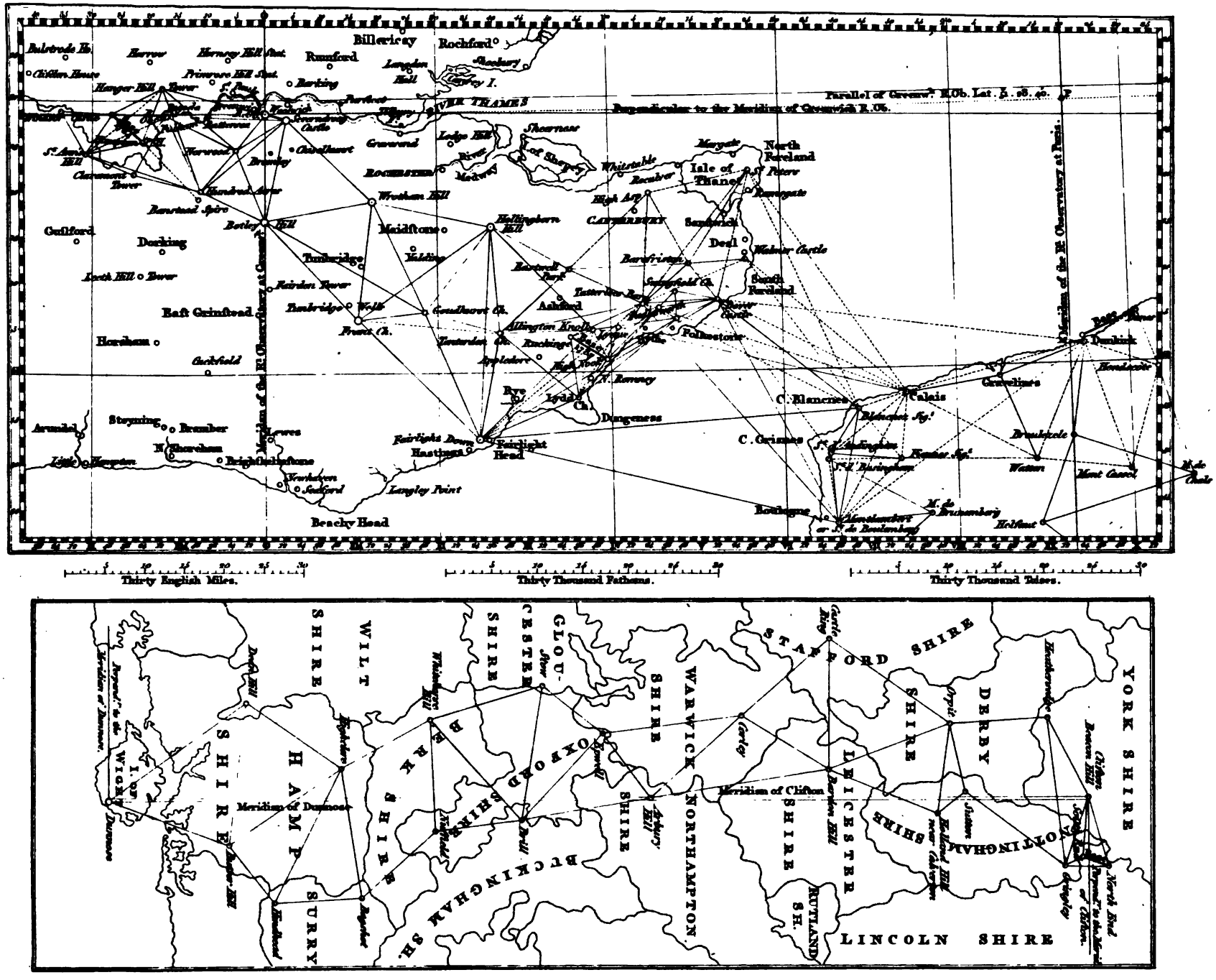
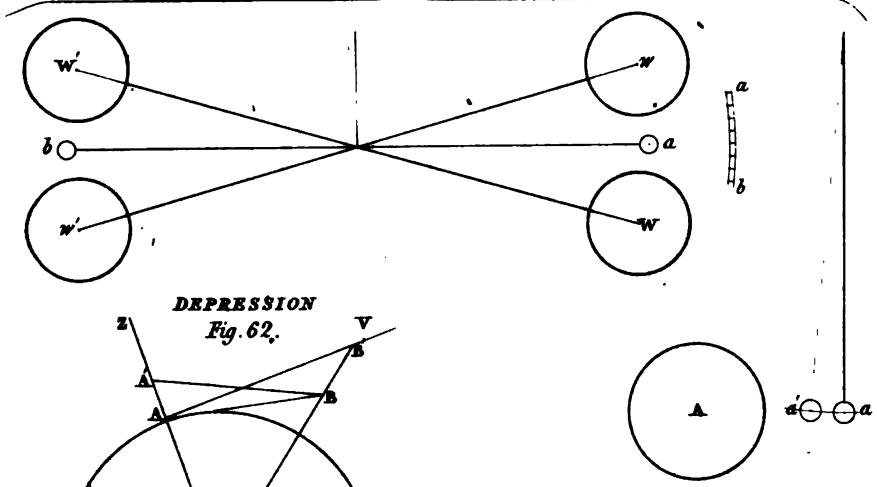
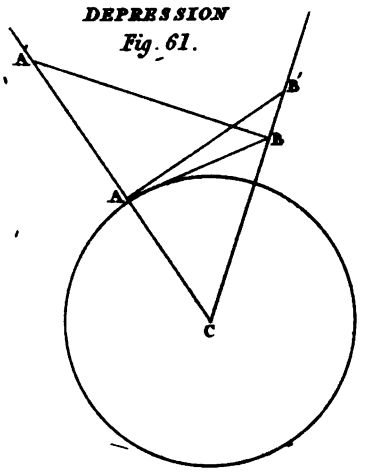

Billericay
Rochford
Rumford
Barking
Parallel of Greenwich R.Ob. Lat. 51. 28. 40.
Perpendicular to the Meridian of Greenwich R.Ob.
THE THAMES
Isle of Thanet
North Foreland
Margate
Ramsgate
Sandwich
Deal
Walmer Castle
CANTERBURY
Whitstable
Faversham
Maidstone
Tunbridge
Ashford
Romney
Hythe
Dover
Dover Castle
Folkestone
Dungeness
Rye
Lydd
Calais
C. Blancnez
C. Grisnez
Boulogne
Gravelines
Dunkirk
Ostend
Nieuport
Bruges
Ghent
Antwerp
Brussels
Mons
Namur
Liege
Spa
Aix la Chapelle
Cologne
Coblentz
Mayence
Worms
Spire
Strasburg
Basle
Berne
Geneva
Lyons
Paris
Rouen
Dieppe
Havre de Grace
Caen
Bayeux
Cherbourg
Alderney
Guernsey
Jersey
Fairlight Head
Hastings
Beachy Head
Langley Point
Seaford
Brighthelmstone
Lewes
Arundel
Steyning
Bramber
Horsham
Guildford
Dorking
Reigate
Farnham
Godalming
Ashtead
Epsom
Kingston
Hampton Court
Windsor
Eton
Staines
Uxbridge
Harrow
Hampstead
Highgate
Hornsey
Islington
Paddington
Chelsea
Kensington
Hyde Park
Westminster
St. James's
Whitehall
Charing Cross
St. Paul's
Temple Bar
Fleet Ditch
Blackfriars
Southwark
Lambeth
Putney
Richmond
Kew
Brentford
Hounslow
Bedfont
Egham
Chertsey
Weybridge
Cobham
Esher
Epsom
Ewell
Sutton
Croydon
Bromley
Dartford
Gravesend
Rochester
Chatham
Sheerness
Isle of Sheppey
Medway
Maidstone
Tunbridge
Tunbridge Wells
Penshurst
Sevenoaks
Seven Oaks
Westerham
Godstone
Reigate
Banstead Downs
Epsom
Leatherhead
Box Hill
Dorking
Guildford
Farnham
Alton
Basingstoke
Odiham
Hartley Row
Bagshot
Hartford Bridge
Hook
Winchfield
Odiham
Alton
Petersfield
Midhurst
Chichester
Arundel
Worthing
Shoreham
Brighthelmstone
Lewes
Hastings
Rye
Winchelsea
Battle
Robertsbridge
Tenterden
Ashford
Canterbury
Faversham
Sittingbourne
Milton
Rochester
Chatham
Gravesend
Dartford
Bromley
Croydon

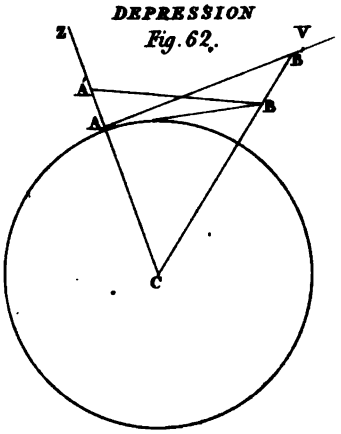
DENSITY
Fig. 60.

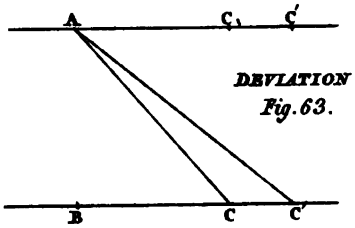


DEPRESSION
Fig. 61.



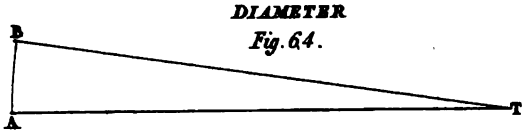
DEPRESSION
Fig. 62.





DEVIATION
Fig. 63.

DIAMETER
Fig. 64.



DIAMETER
Fig. 65.

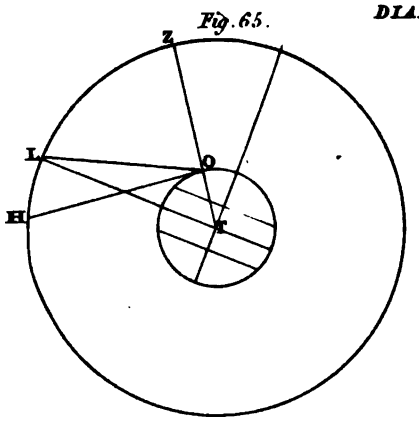
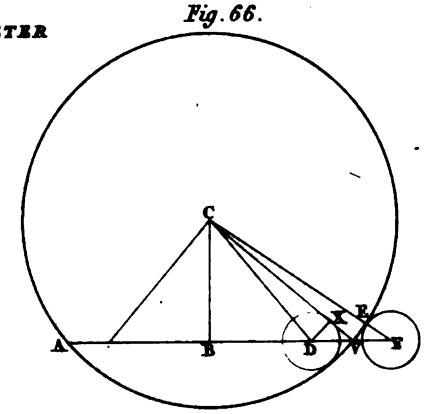
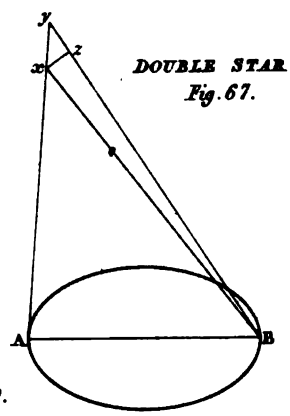


Fig. 66.



DOUBLE STAR
Fig. 67.



DICHOTOMY
* Fig. 67.

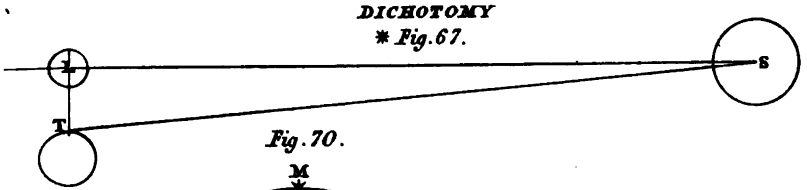


Fig. 69.

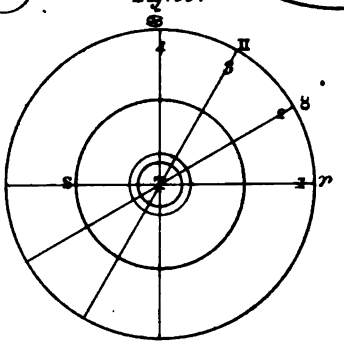


Fig. 70.

EARTH

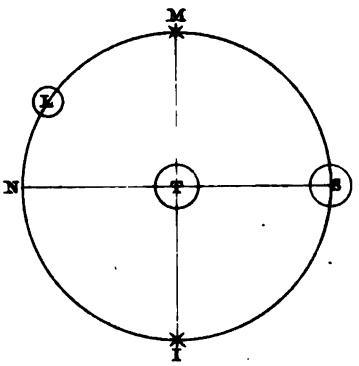
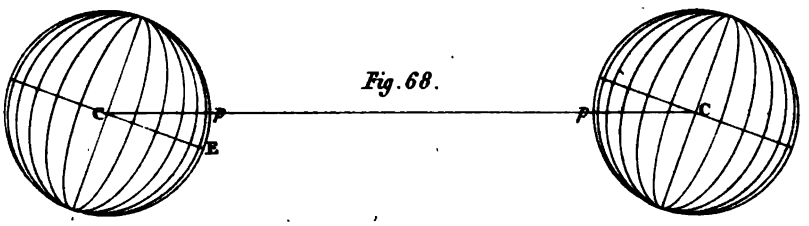


Fig. 68.



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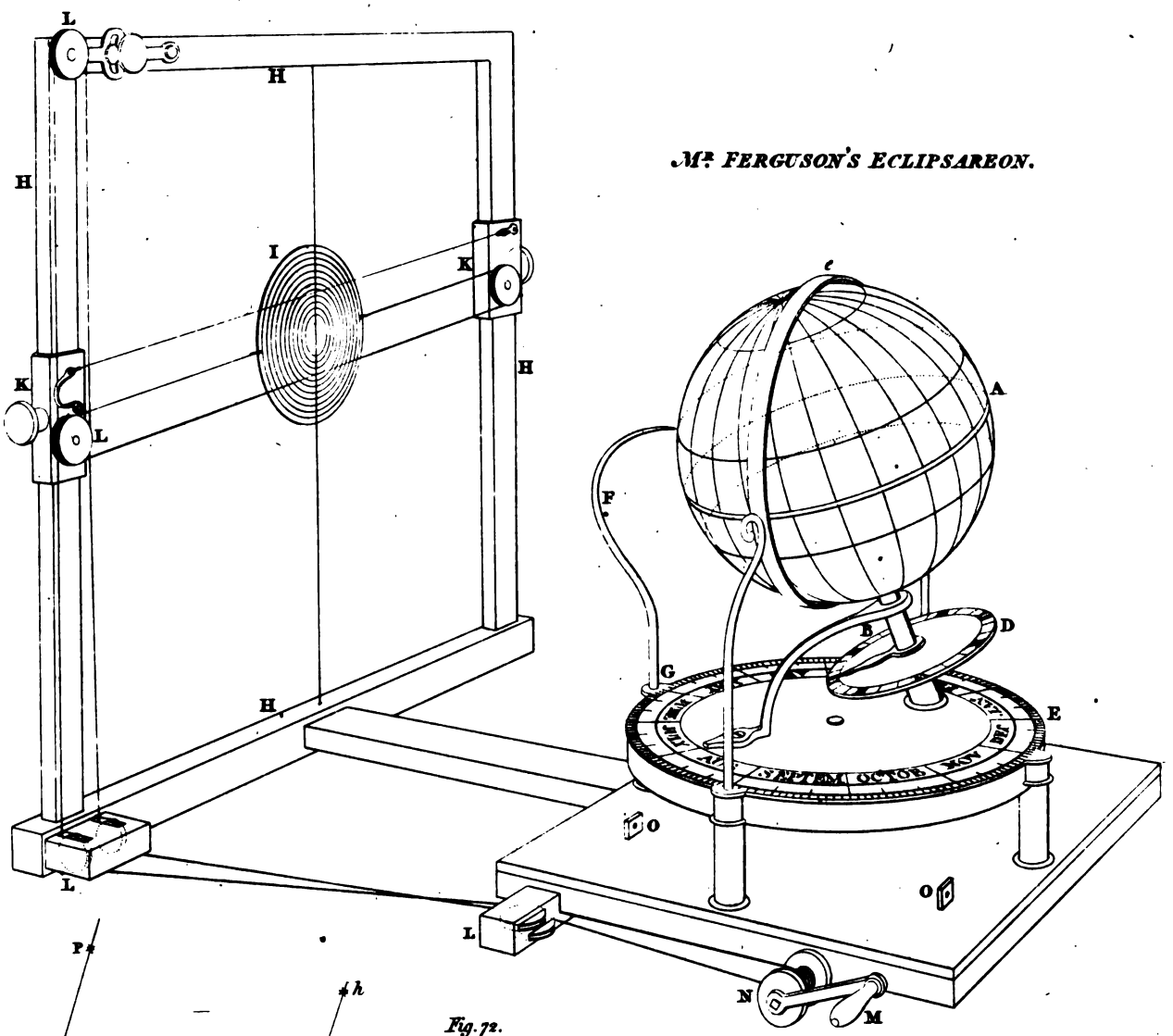

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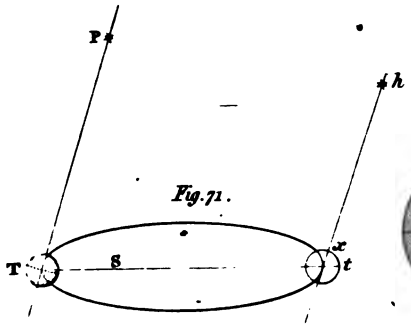
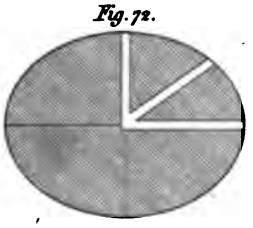


Fig. 72.



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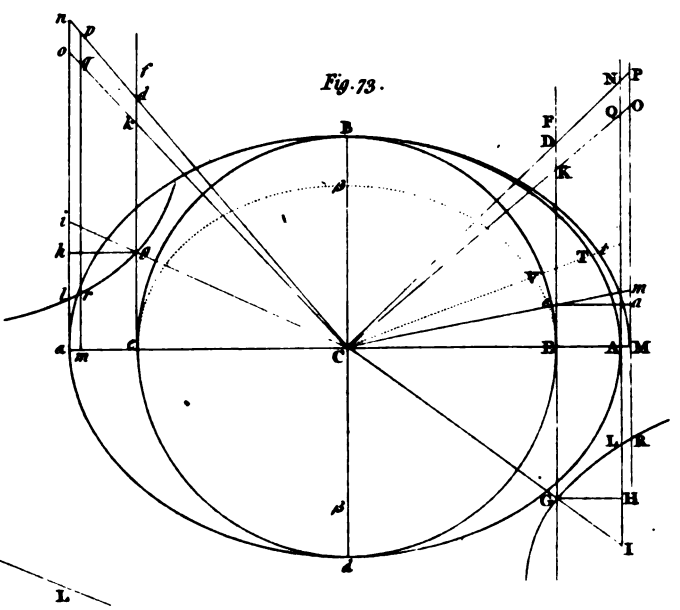
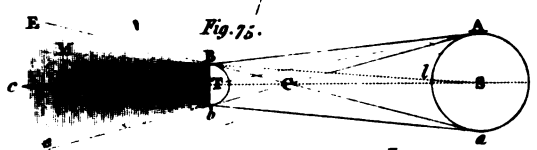


Fig. 75.



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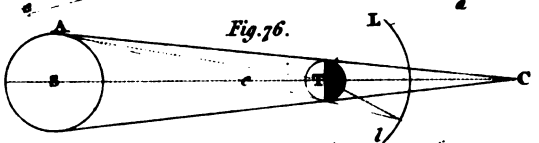

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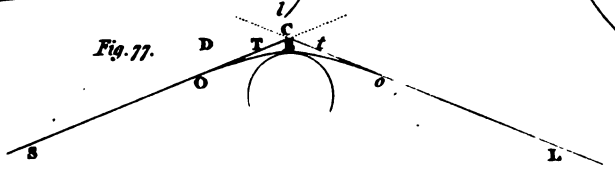

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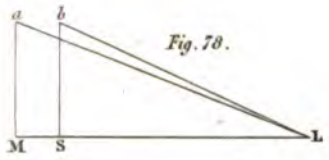

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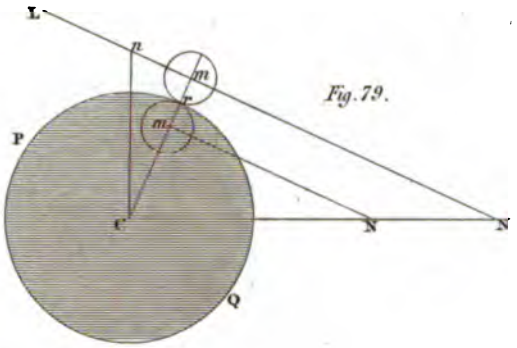
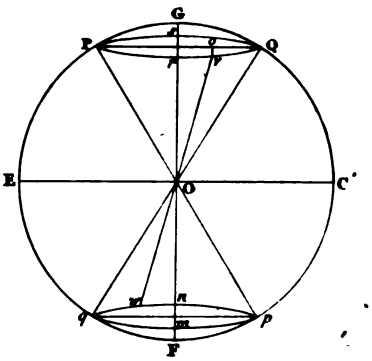


Fig. 79.



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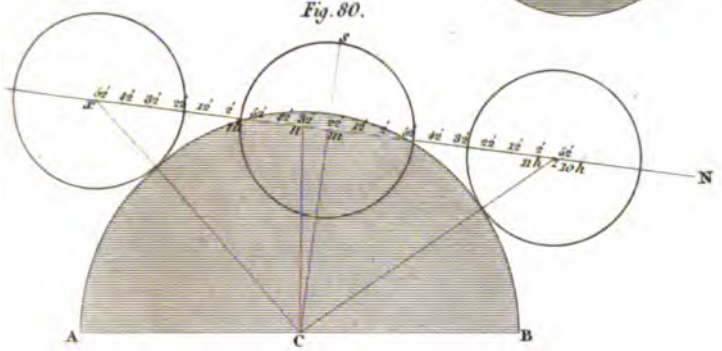


Fig. 80.

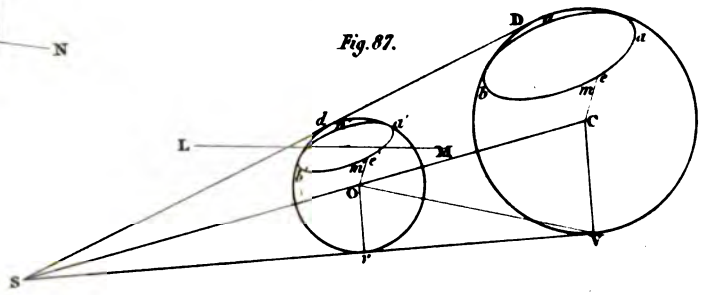
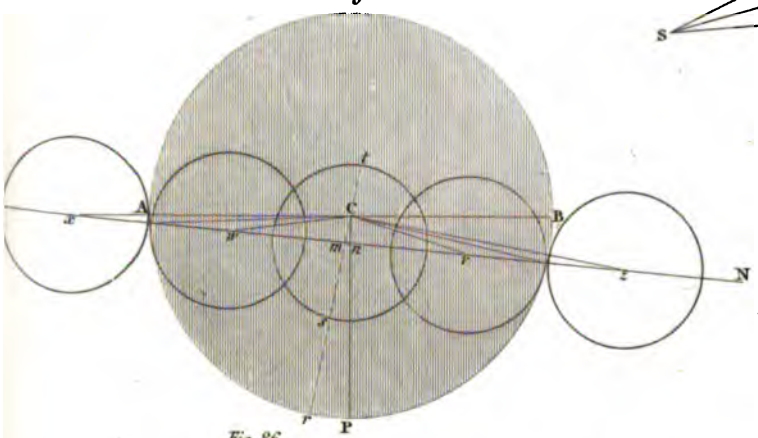


Fig. 87.



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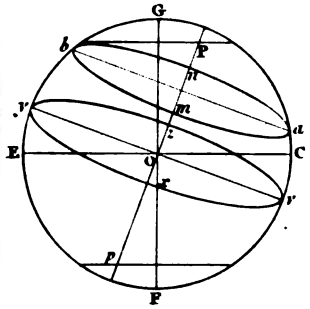

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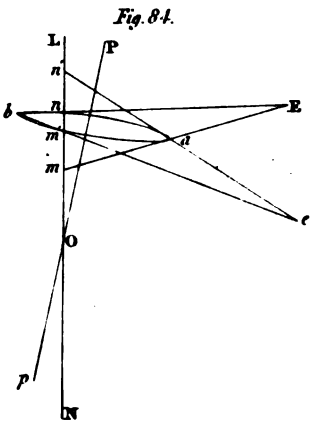

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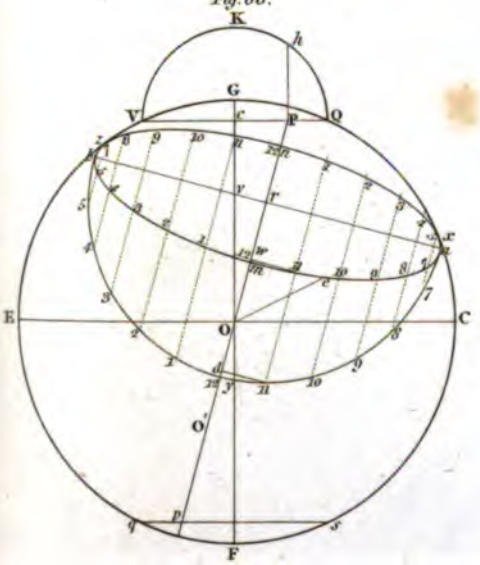

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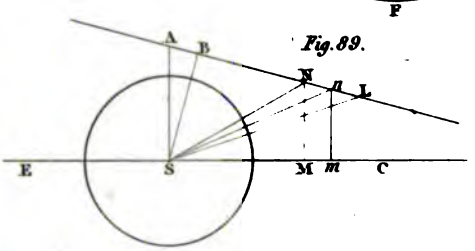

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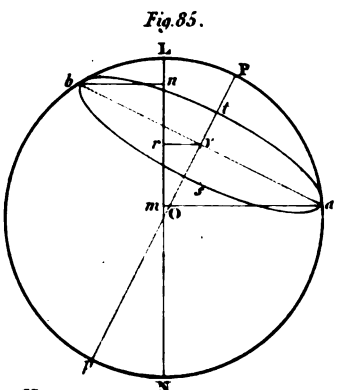

Fig. 85.

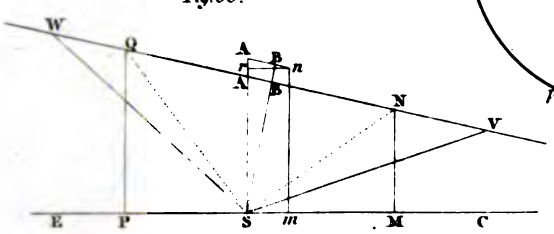

Fig. 88.

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Fig. 91. & 92.

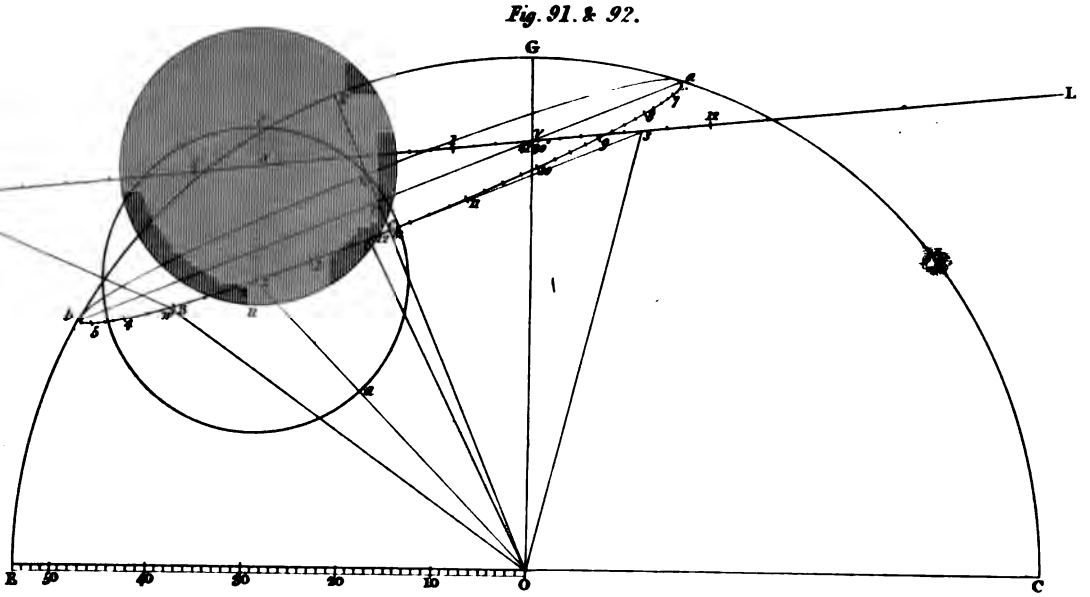


Fig. 90.

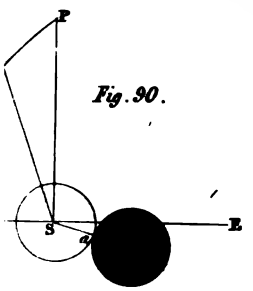


Fig. 93.

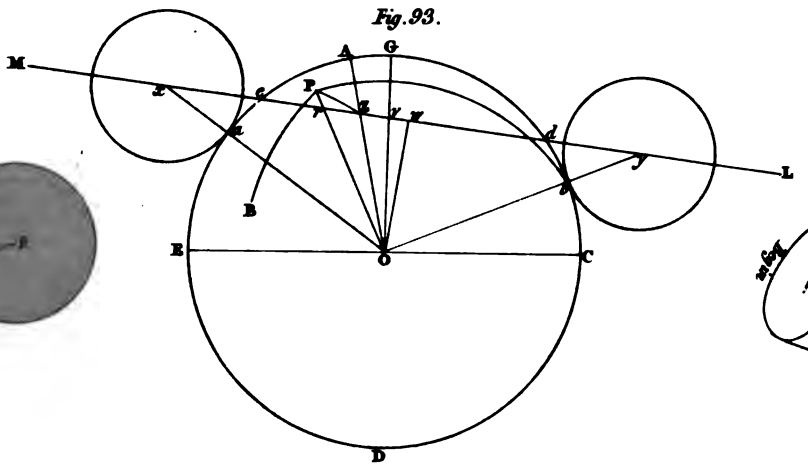
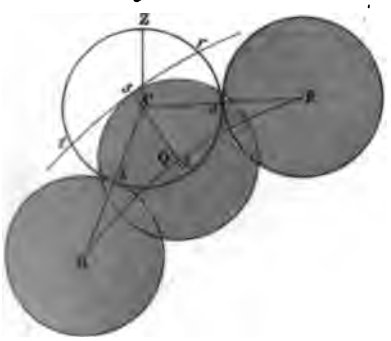


Fig. 92.



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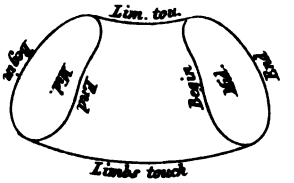

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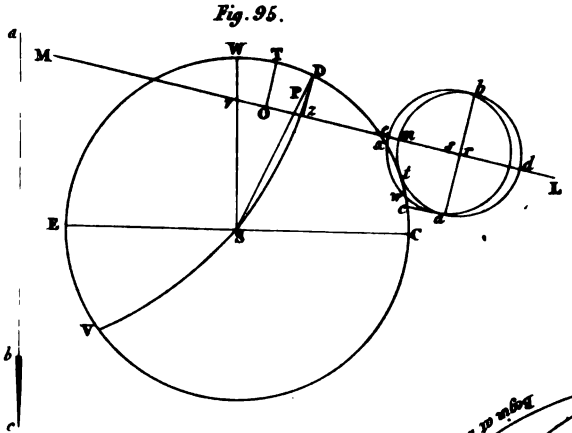

Fig. 97.

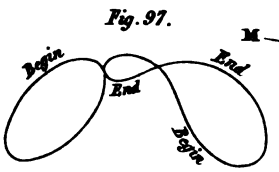

Fig. 94.

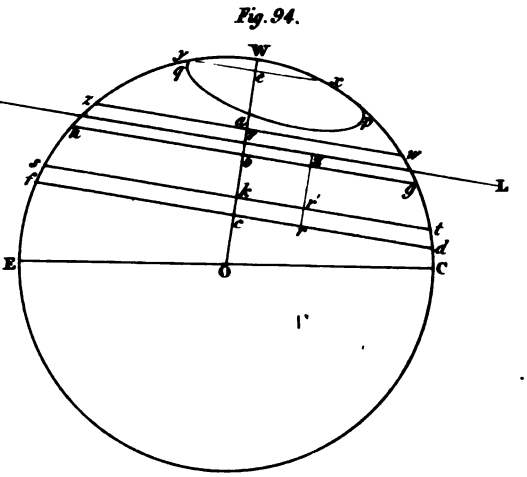

Fig. 96.

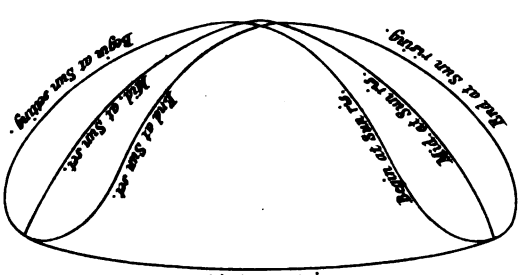

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Fig. 99.
ECLIPSE

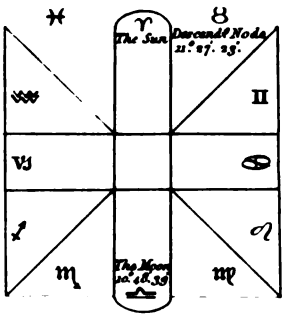


Fig. 101.
ECLIPTIC

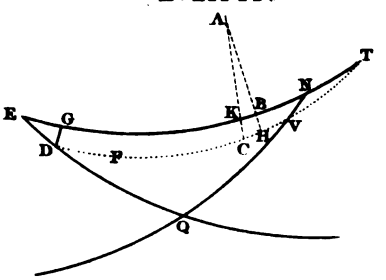


Fig. 103.
ELLIPTIC

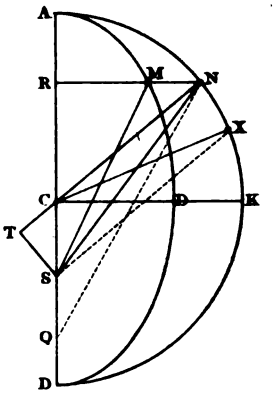


Fig. 105.
EPICYCLE

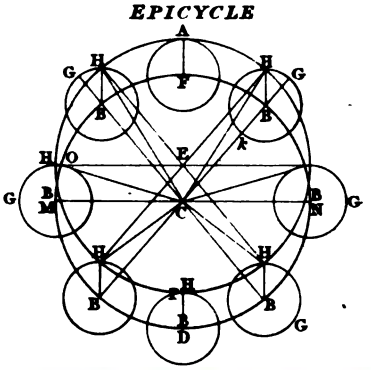
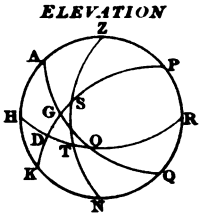


Fig. 102.
ELEVATION



EQUAL ALTITUDE

Fig. 106.

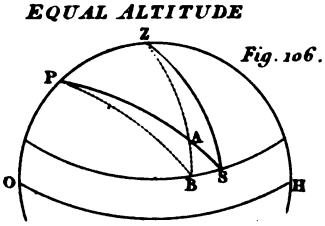


Fig. 100.
ECLIPSE

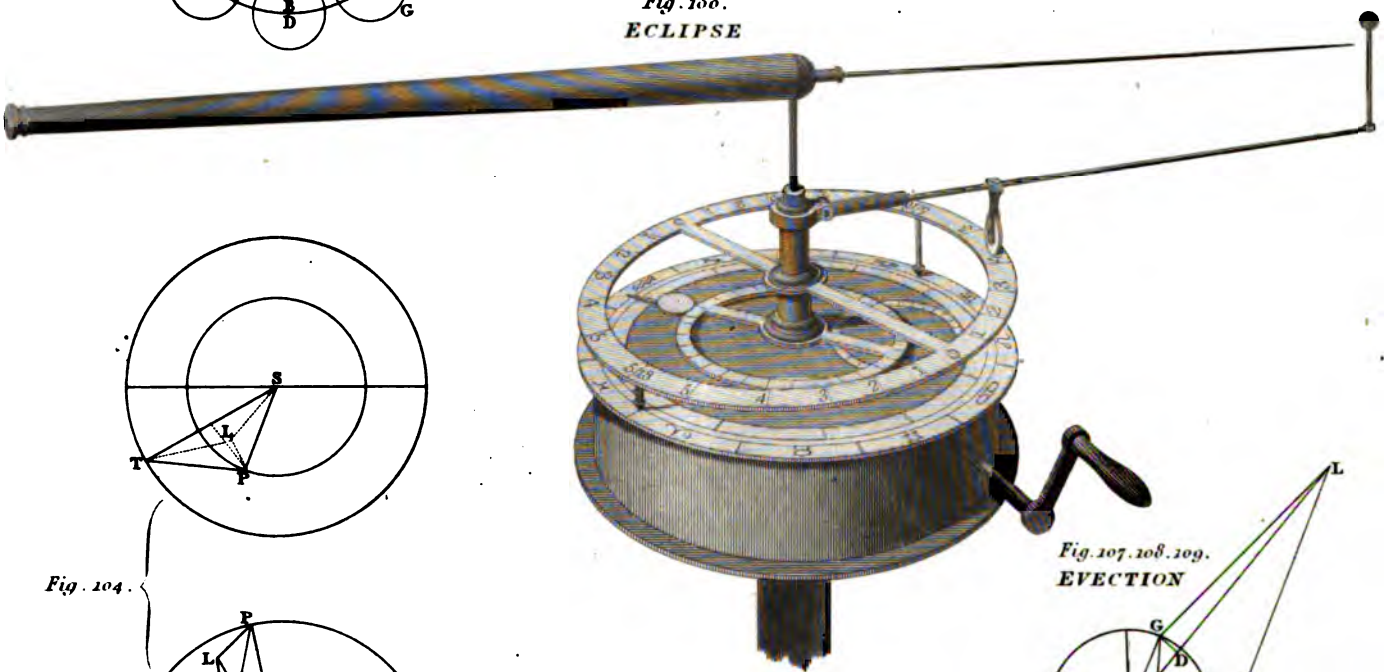


Fig. 104.

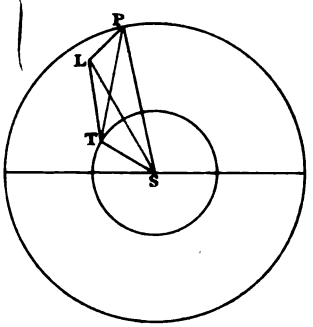
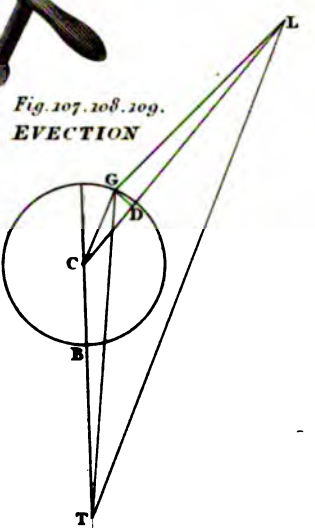
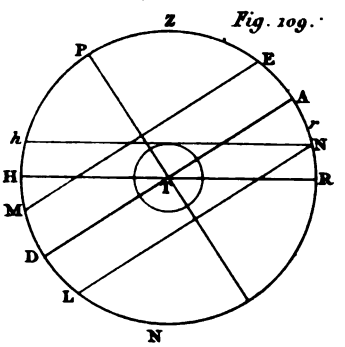


Fig. 107. 108. 109.
EVECTION



EQUATOR

Fig. 109.



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ASTRONOMY.

ECLIPTIC.

Fig. 107.

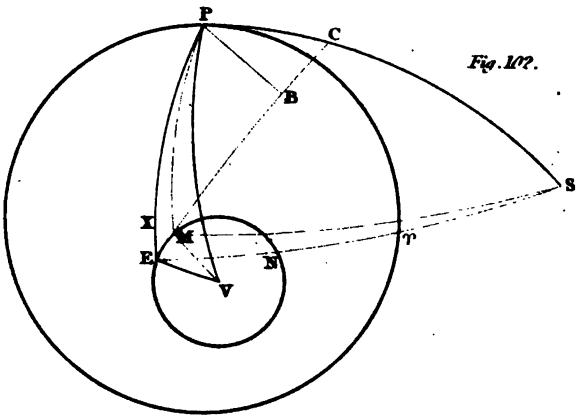


Fig. 108.*

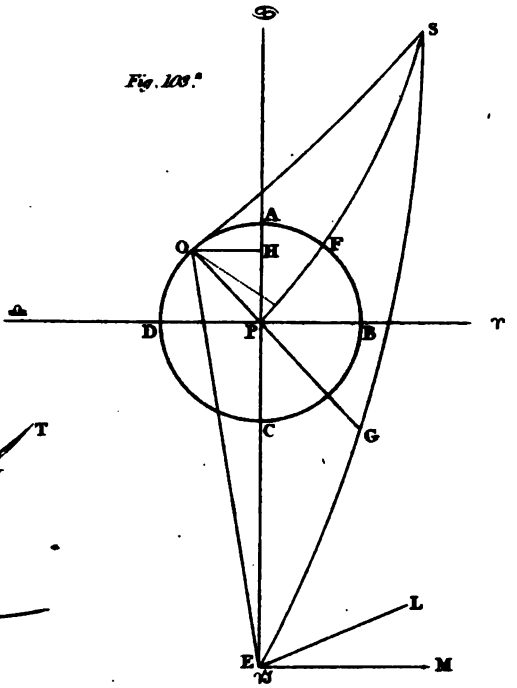
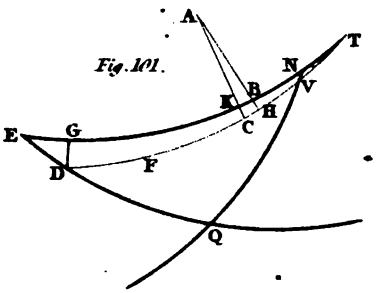
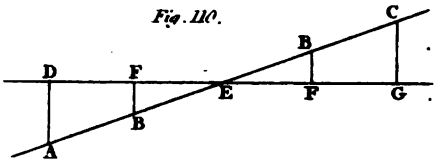


Fig. 101.



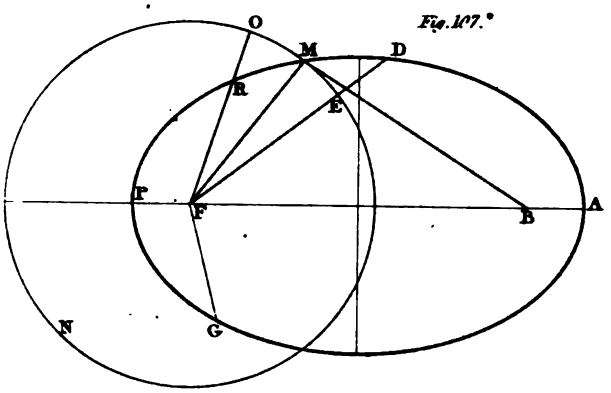
EQUINOX

Fig. 110.



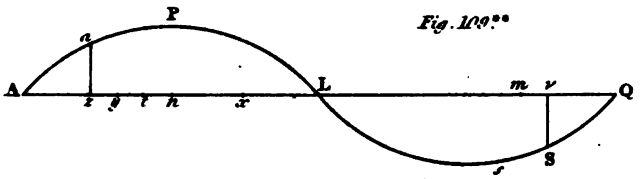
EQUATION of CENTER.

Fig. 107.*



EQUATION of TIME.

Fig. 109.**



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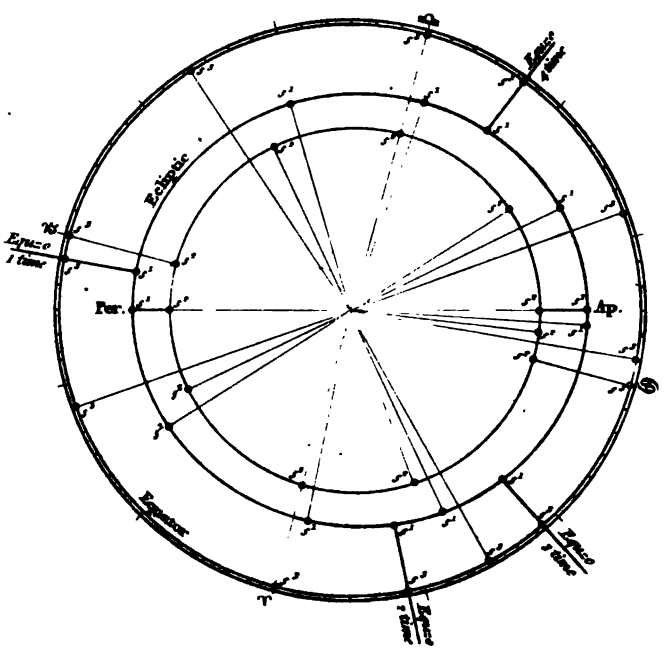

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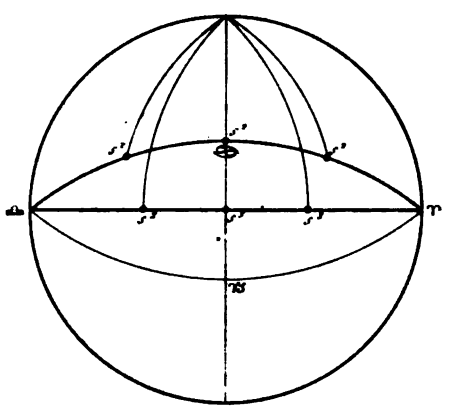

EQUATION of TIME.

Fig. 108.

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Lowry Sc.

Fig. 112.

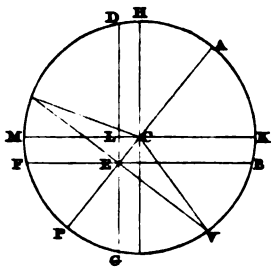


Fig. 111.

EXCENTRIC.

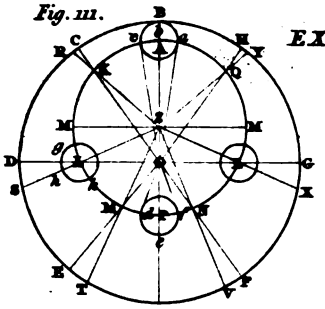


Fig. 113.

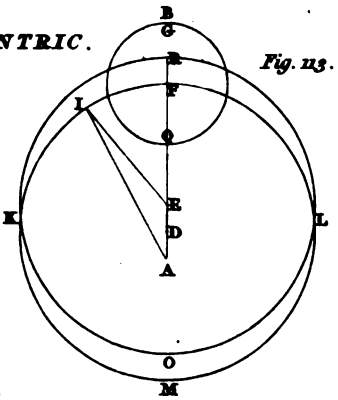


Fig. 110.

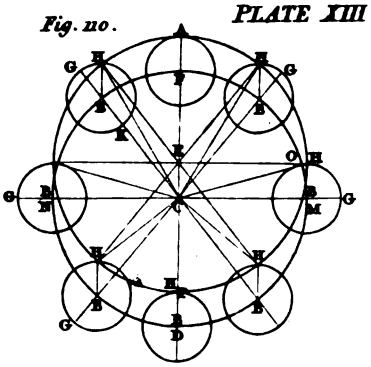


Fig. 5.

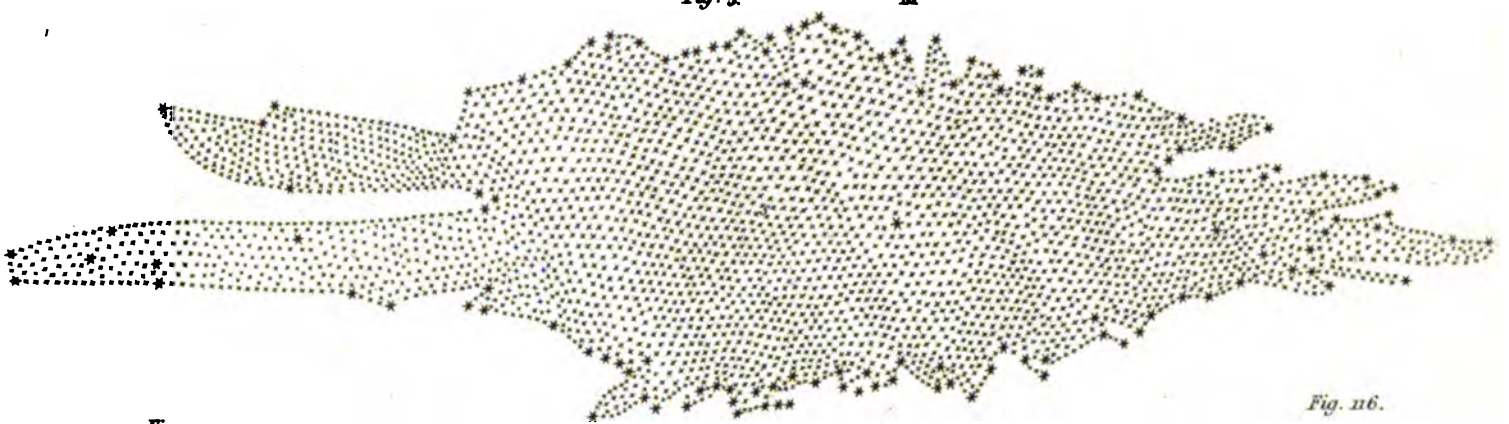
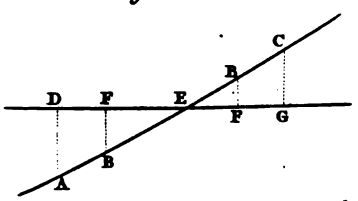


Fig. 110.



GALAXY

Fig. 114.

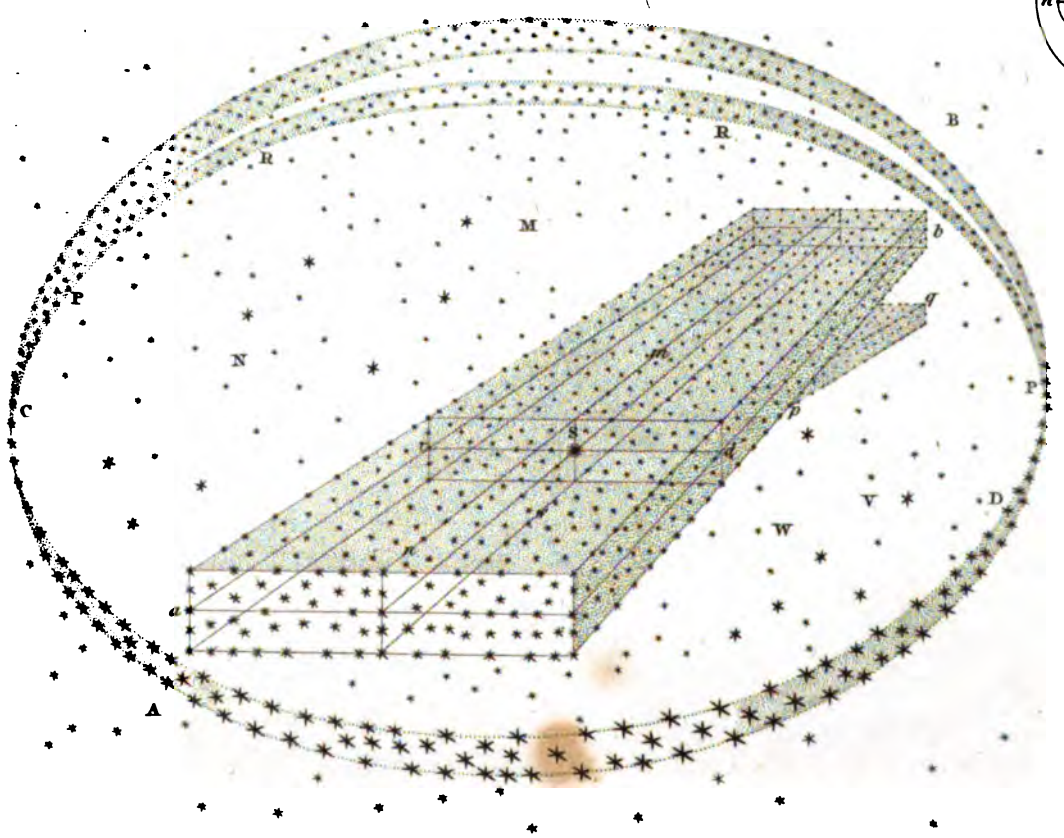
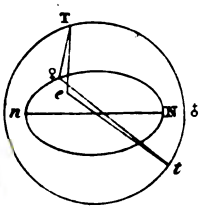


Fig. 116.

GEOCENTRIC.



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Engraved by W. Lowry.

GLOBE.

Fig. 117.

Fig. 118.

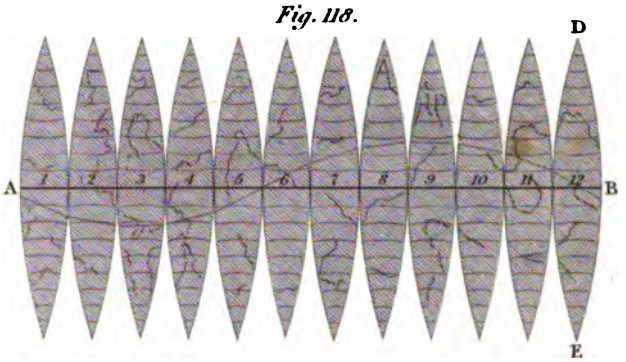


Fig. 119 & 121.

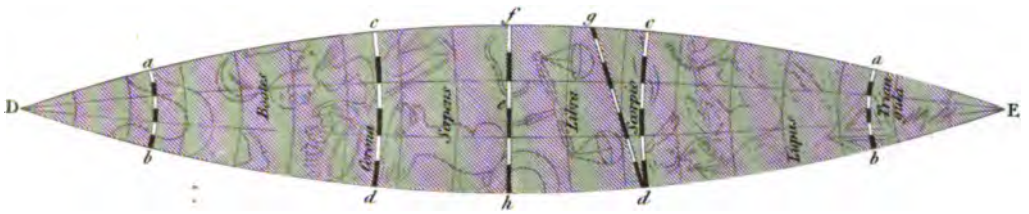


Fig. 120.

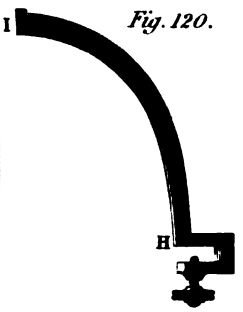
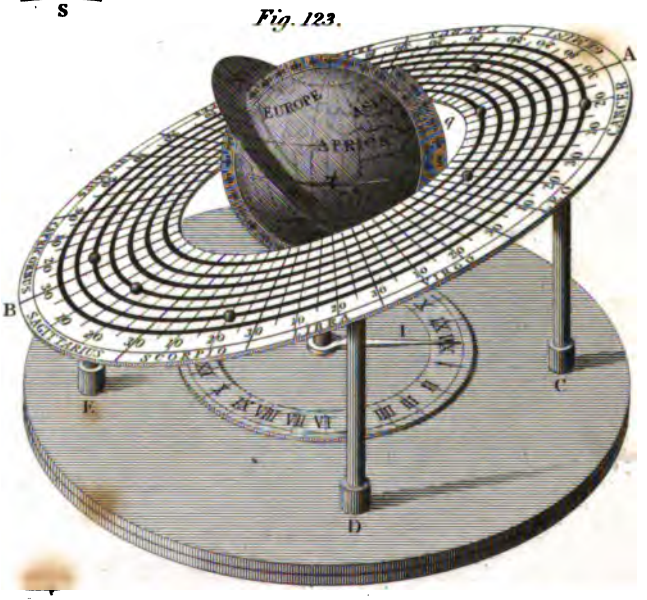


Fig. 122.

Ferguson's Celestial Globe.

Ferguson's Planetary Globe.

Fig. 123.



Drawn by J. Farey. Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

ASTRONOMY.

GRAVITATION.

PLATE XV.

Fig. 124.

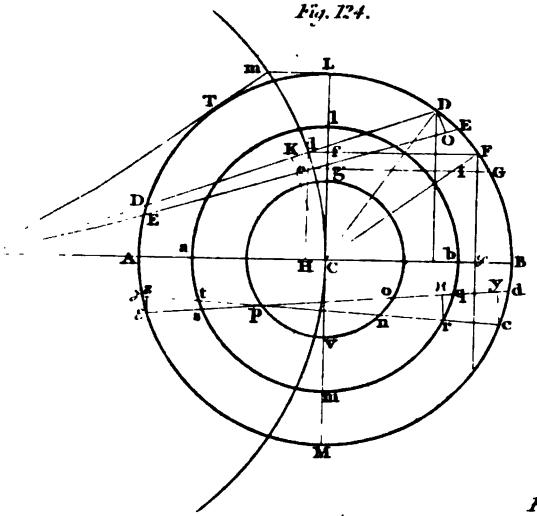


Fig. 125.

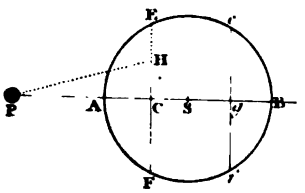
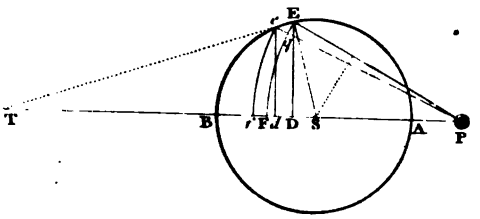


Fig. 127.



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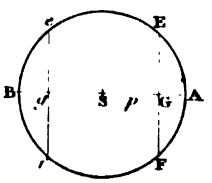


Fig. 128.

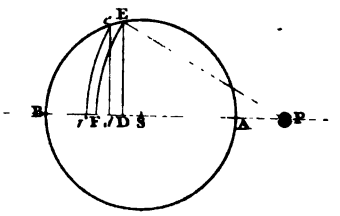


Fig. 130.

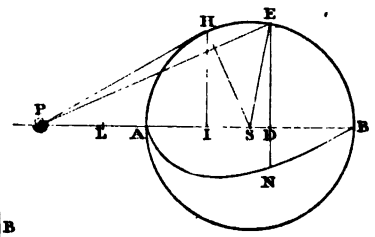


Fig. 129.

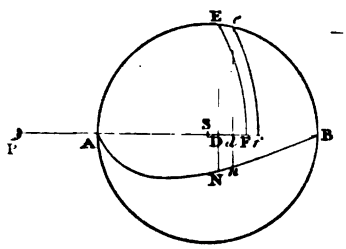
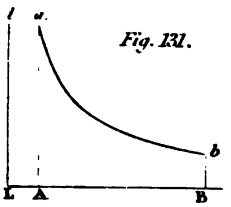


Fig. 131.



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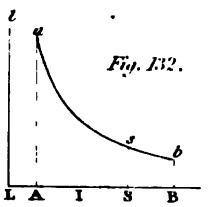


Fig. 134.

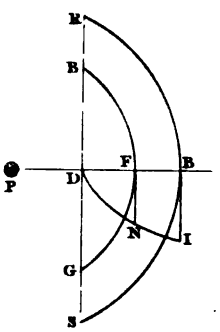


Fig. 133.

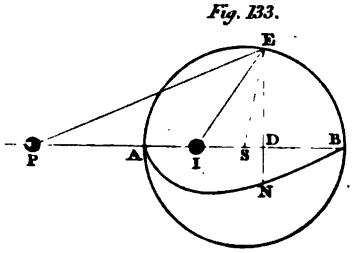


Fig. 135.

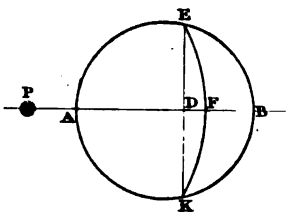
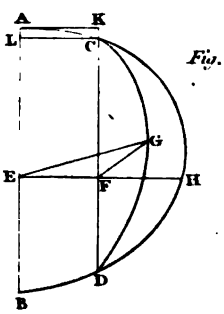


Fig. 138.



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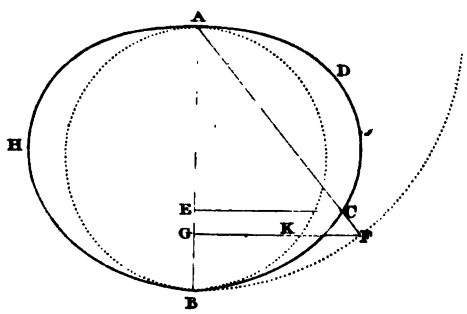


Fig. 137.

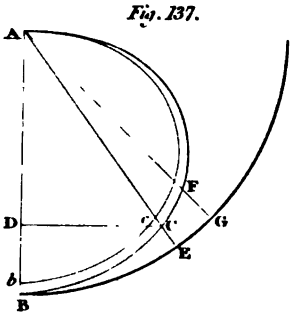
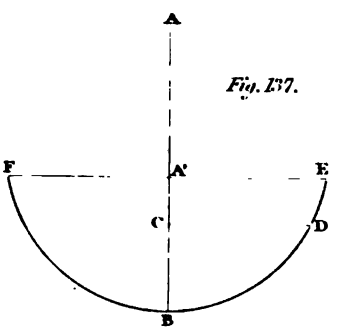


Fig. 137.



Published as the Act directs, 1st, by Longman, Hurst, Rees, Orme and Brown, Paternoster Row, London.

Engraved by W. Lowry.

HEAT.

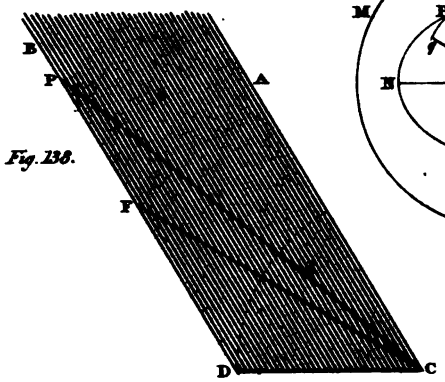


Fig. 138.

HELIOCENTRIC.
Latitude.

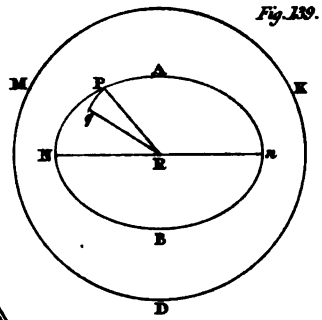


Fig. 139.

HEMISPHERE, HORIZON, TROPICS.

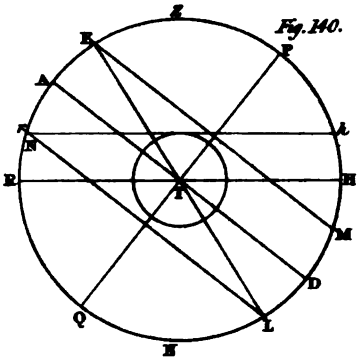


Fig. 140.

HORIZON.

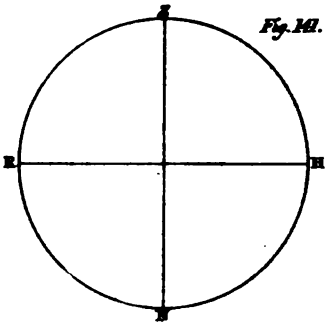


Fig. 141.

Fig. 143.

JUPITER.

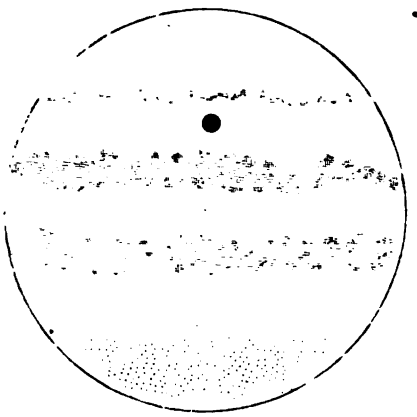
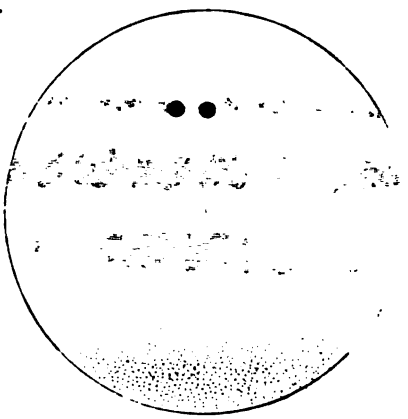


Fig. 144.



HOUR.

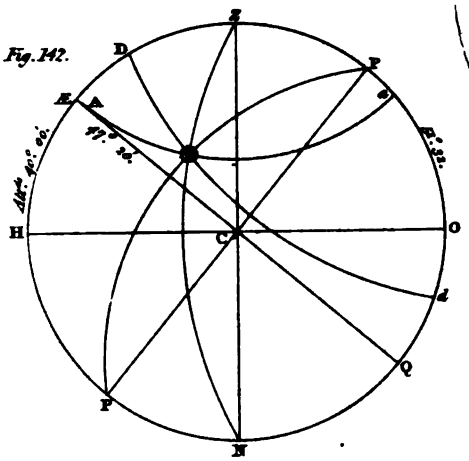
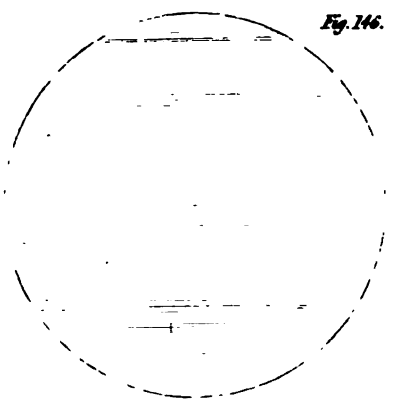


Fig. 142.

Fig. 145.

Fig. 146.



LATITUDE, REDUCTION.

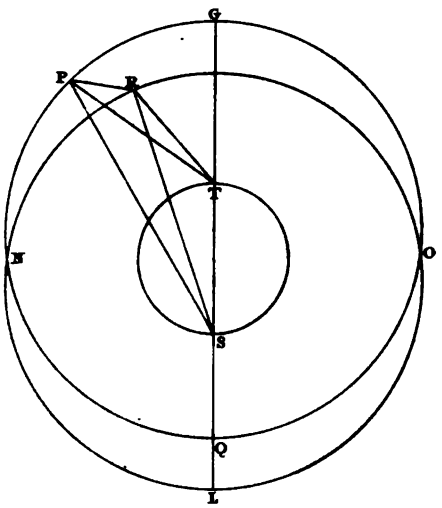


Fig. 148.

LATITUDE.

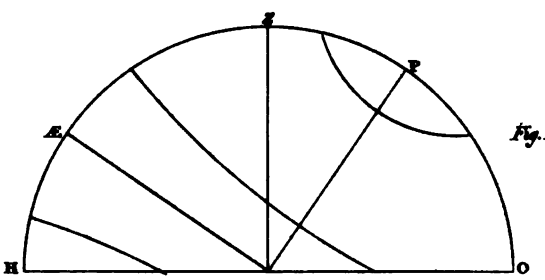


Fig. 147.

Published as the Act directs, 1822, by Longman, Hurst, Rees, Orme and Brown, Paternoster Row, London.

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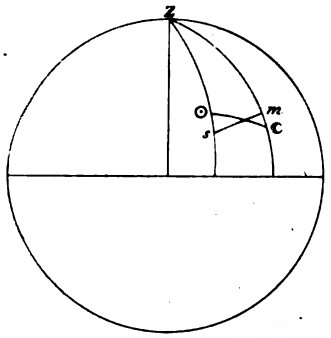
LONGITUDE.

Fig. 1.



MARS.

Fig. 2.

MERIDIAN LINE.

Fig. 3.

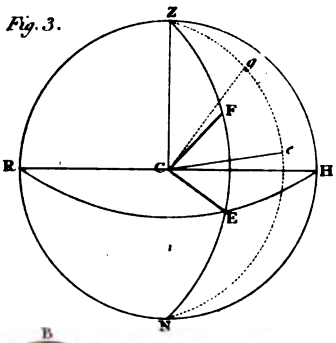
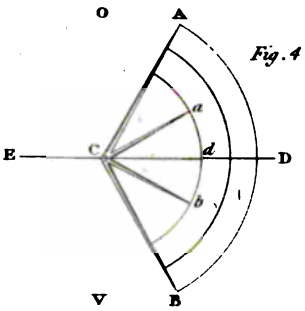
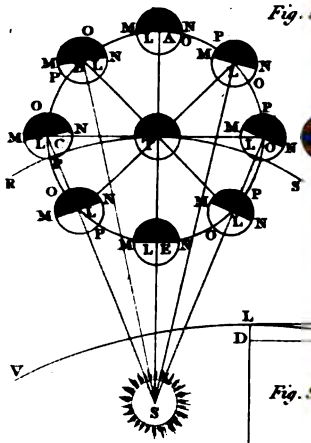


Fig. 4.



MOON

Fig. 5.



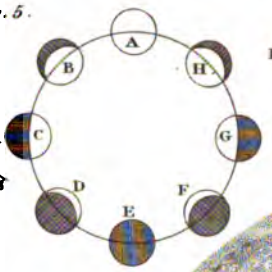
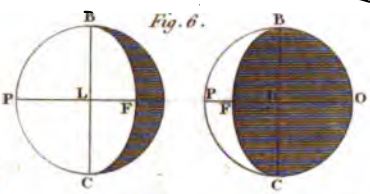


Fig. 6.



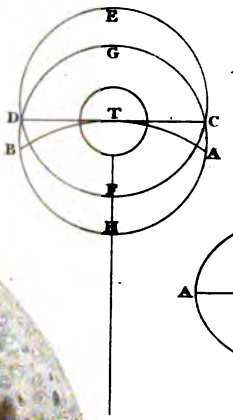
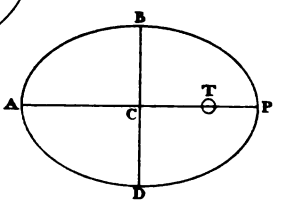


Fig. 7.

Fig. 8.



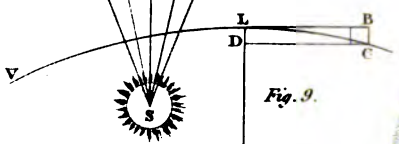
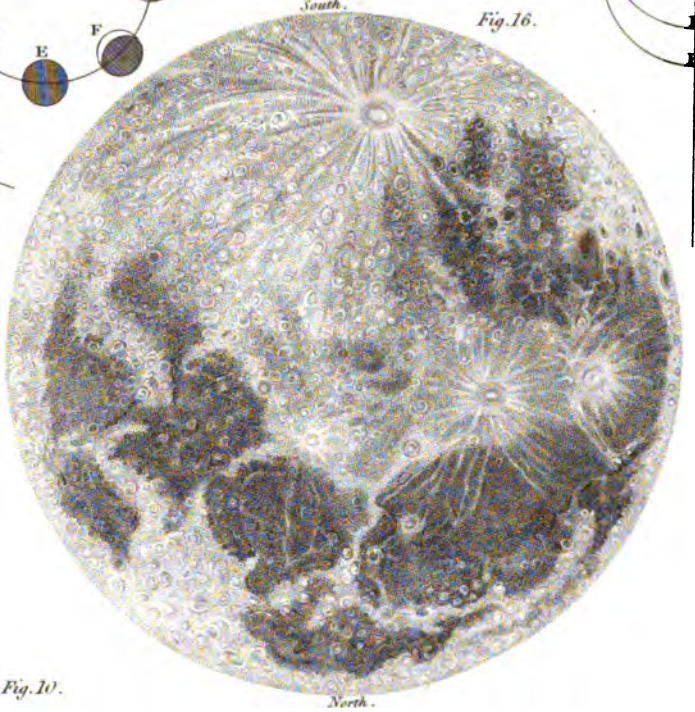


Fig. 9.

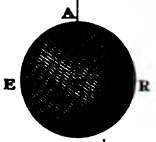
South.

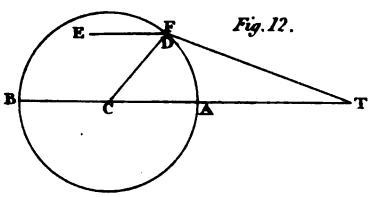
Fig. 16.



North.

Fig. 10.





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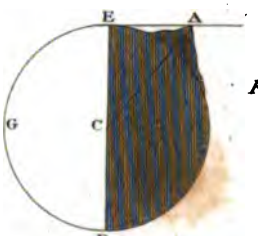
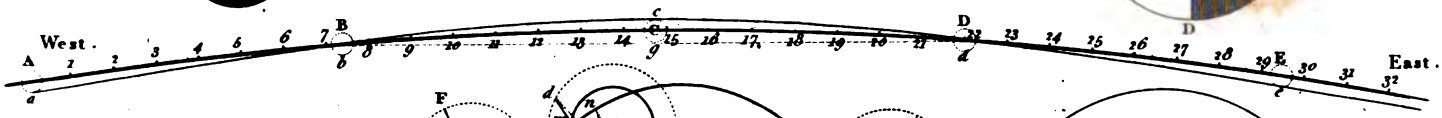


Fig. 14.



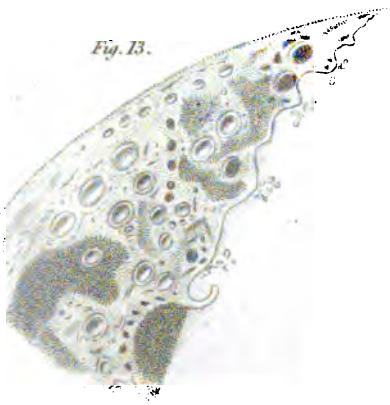
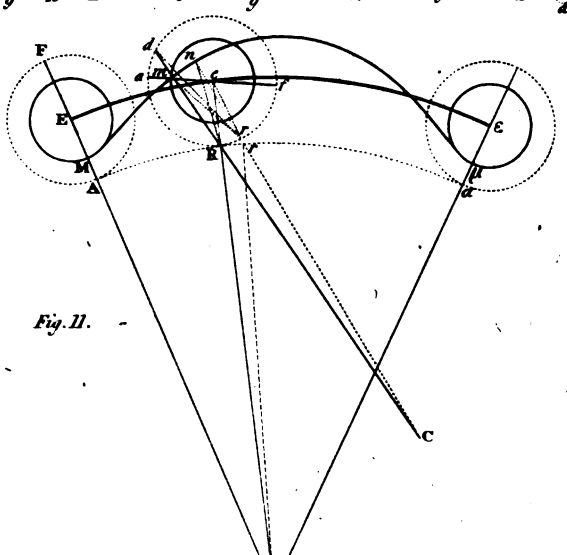


Fig. 13.



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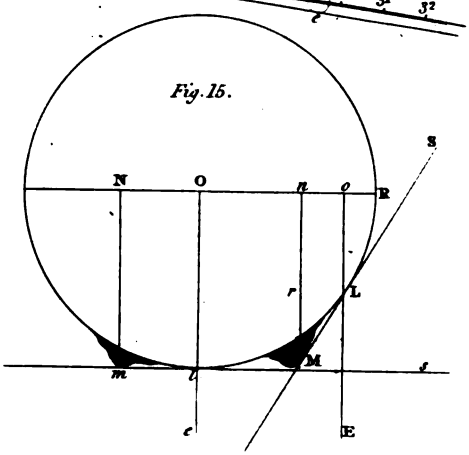
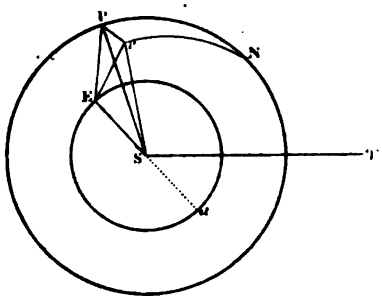


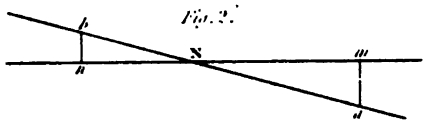
Fig. 15.

Published as the Act directs, 1813, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row, London.

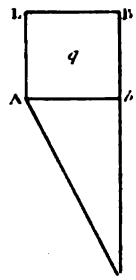
Fig. 1.



NODES.
Fig. 2.



PARACENTRIC.
Fig. 3.



PARALLAX.

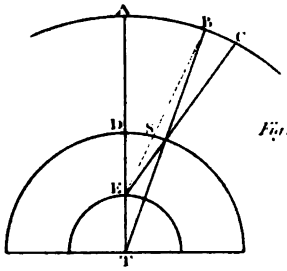
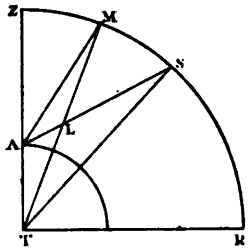


Fig. 4.

Fig. 5.



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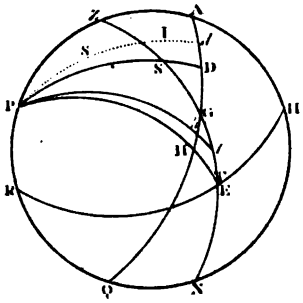

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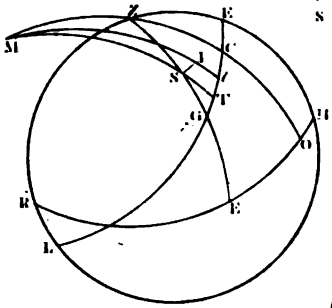

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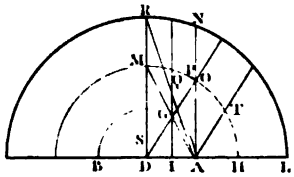
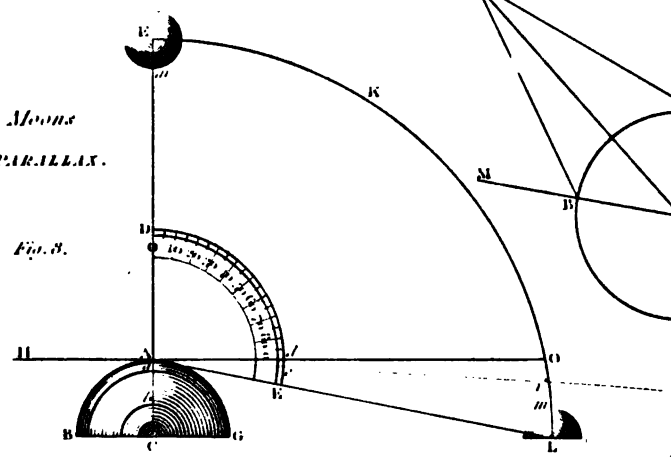


Moons PARALLAX.

Fig. 8.



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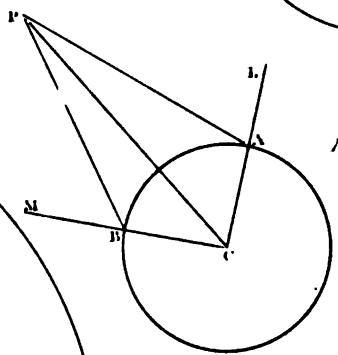


Fig. 13.

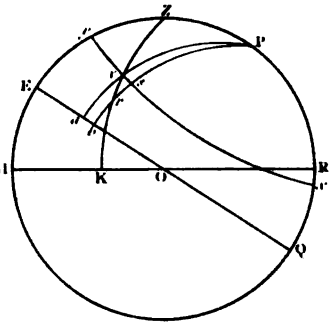
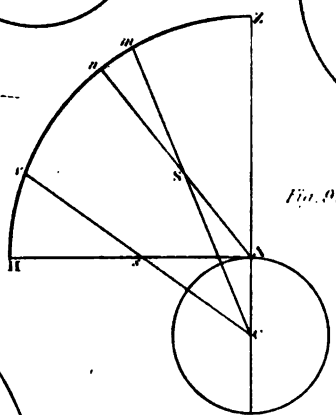


Fig. 9.



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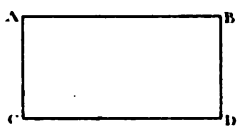

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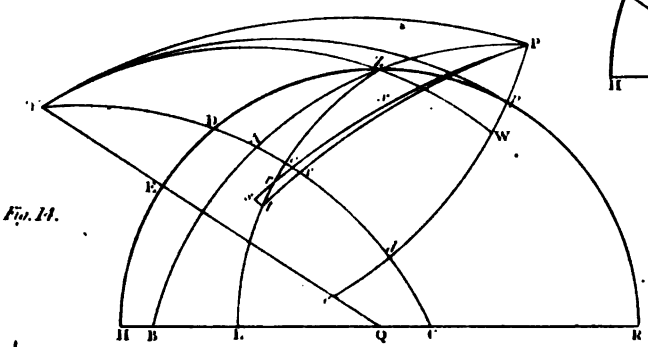


Venus's PARALLAX.

Fig. 15.

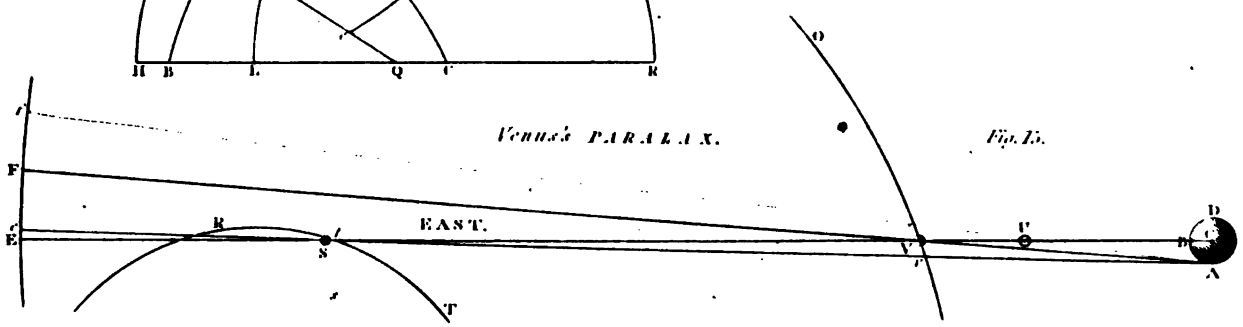
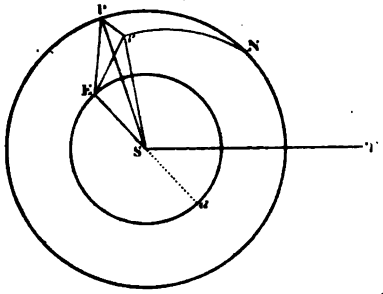
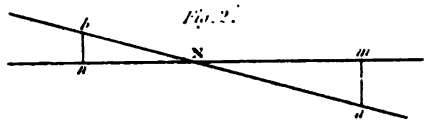


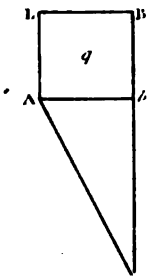
Fig. 1.



NODES.
Fig. 2.



PARACENTRIC.
Fig. 3.



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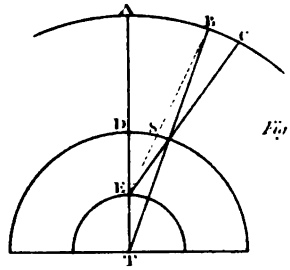


Fig. 4.

Fig. 5.

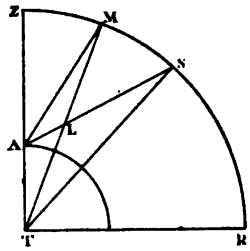
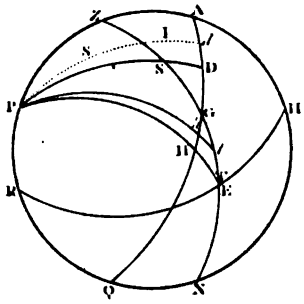


Fig. 6.



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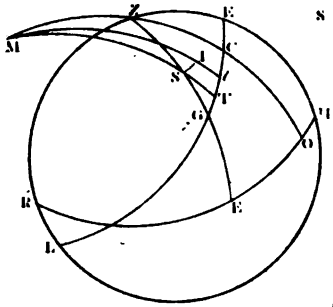
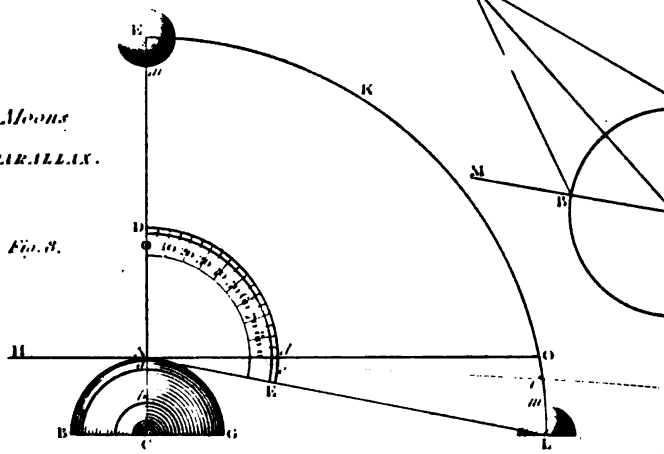


Fig. 8.



Moons
PARALLAX.

Fig. 10.

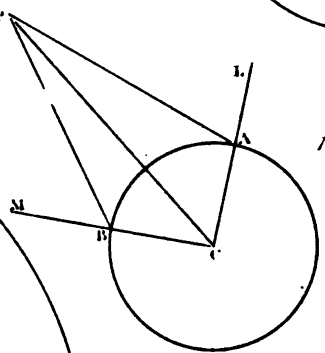


Fig. 11.

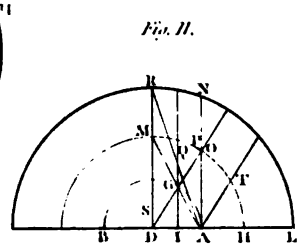


Fig. 12.

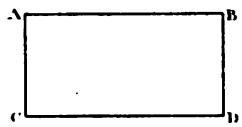
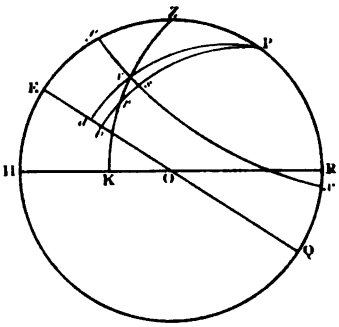


Fig. 13.



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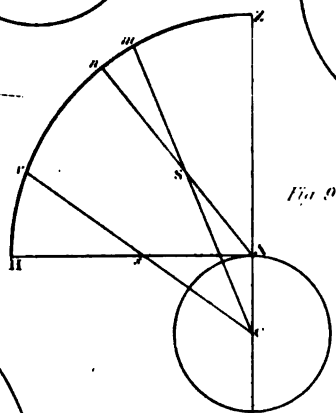
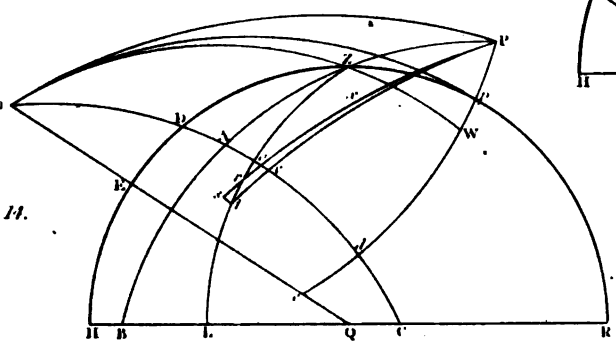
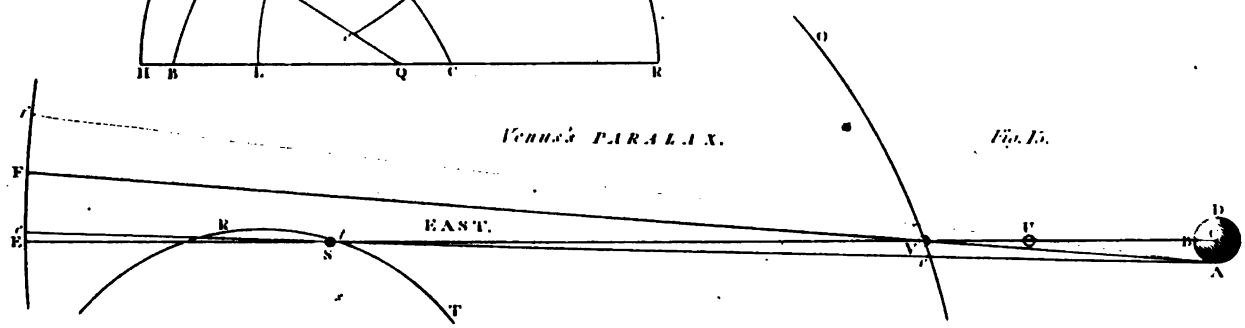


Fig. 14.



Venus's PARALLAX.

Fig. 15.



PARTICULA exsors

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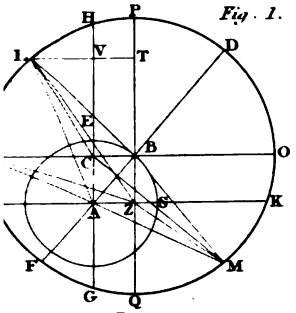
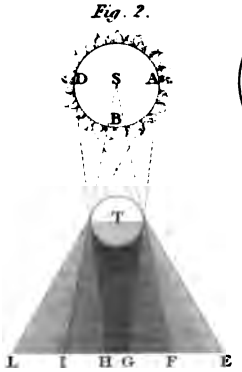


PENUMBRA

Fig. 2.



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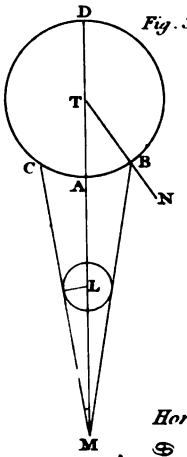

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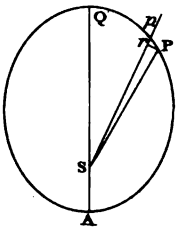
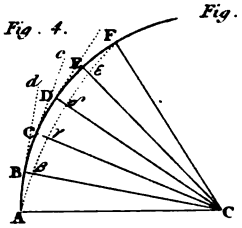


PLANET

Fig. 4.



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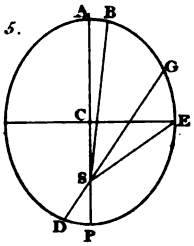

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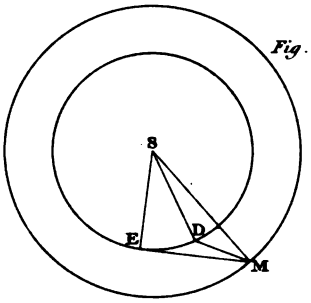
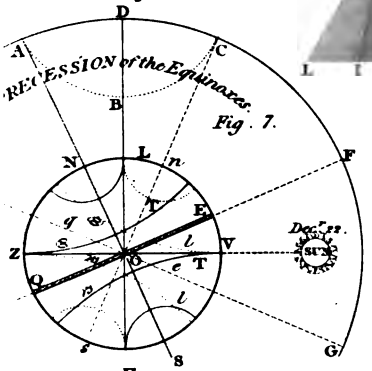


RECESSION of the Equinoxes.

Fig. 7.



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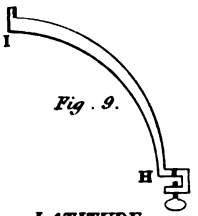
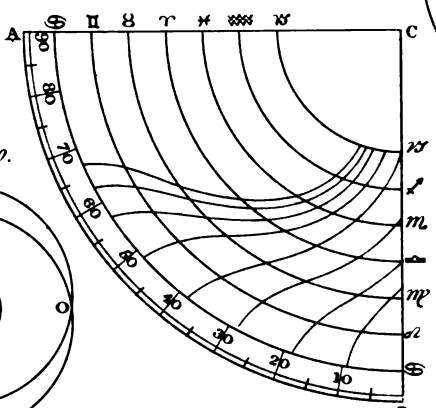


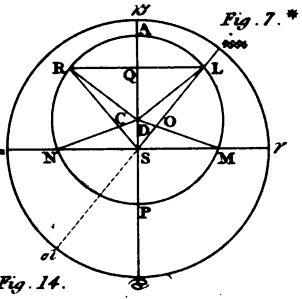
Fig. 8.

Horodictical QUADRANT.



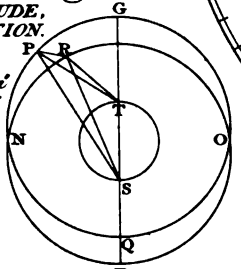
PROSTHAPHÆRESIS

Fig. 7.*



LATITUDE, REDUCTION.

Fig. 10.



REFRACTION

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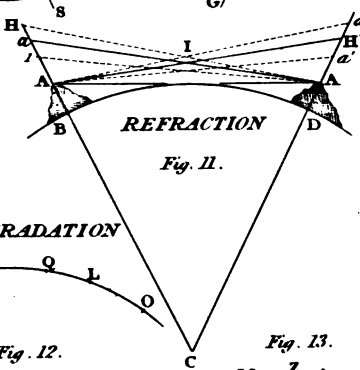
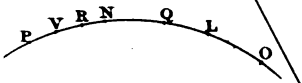


RETROGRADATION



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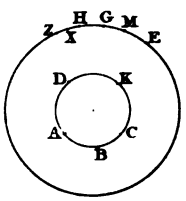

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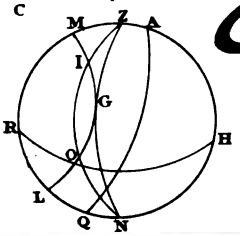
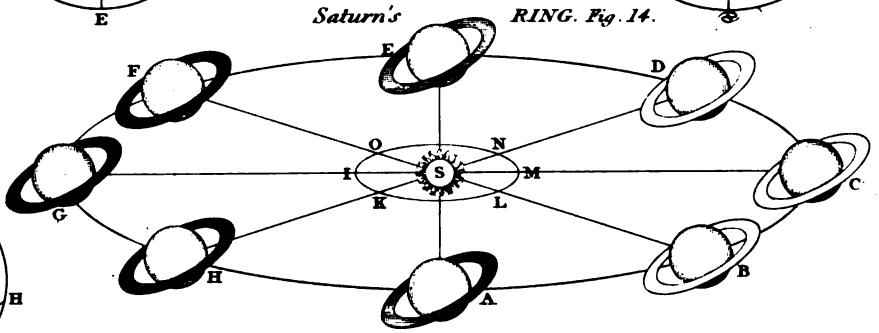


Saturn's RING. Fig. 14.



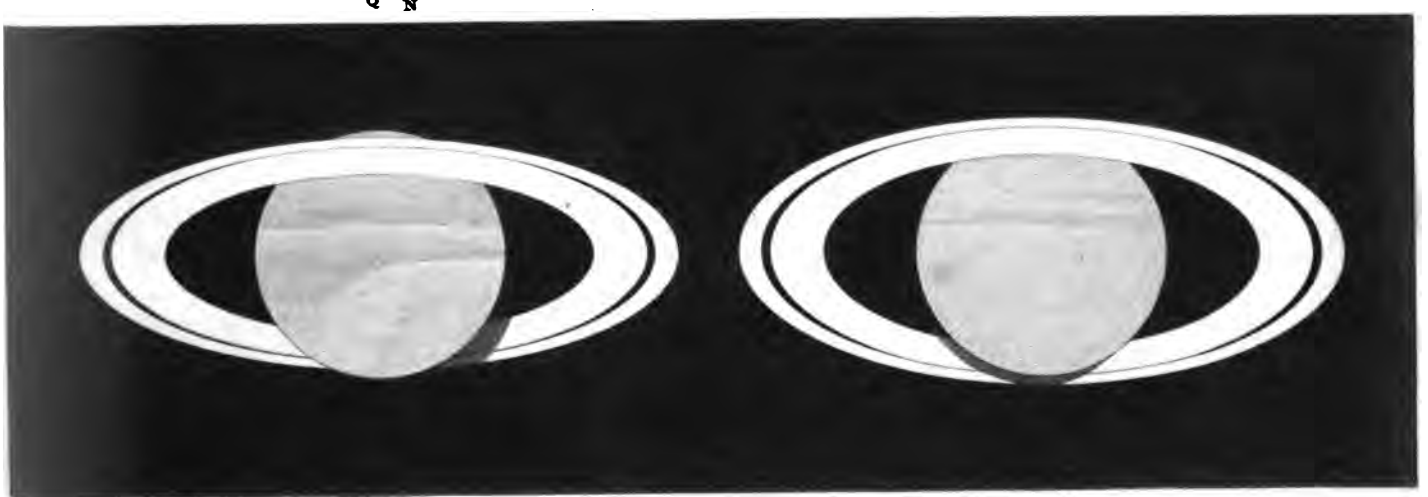


Fig. 15.

Fig. 16.

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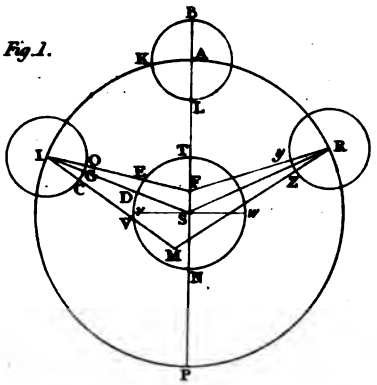
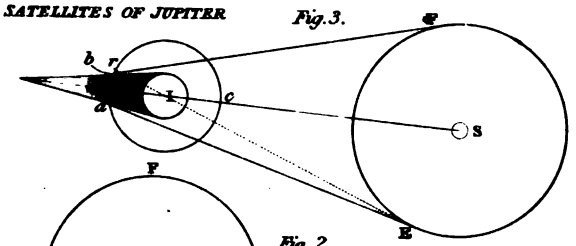
Lowry Sc.

Fig. 1.



SATELLITES OF JUPITER Fig. 3.



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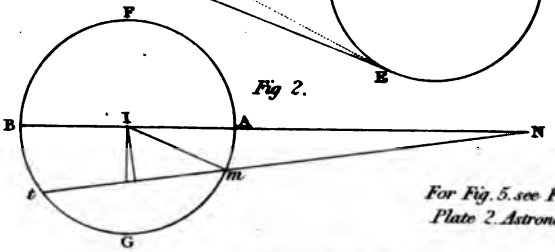


CONFIGURATION

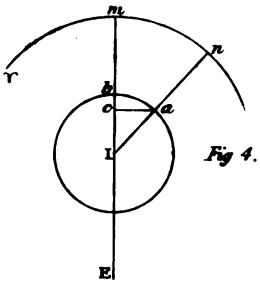
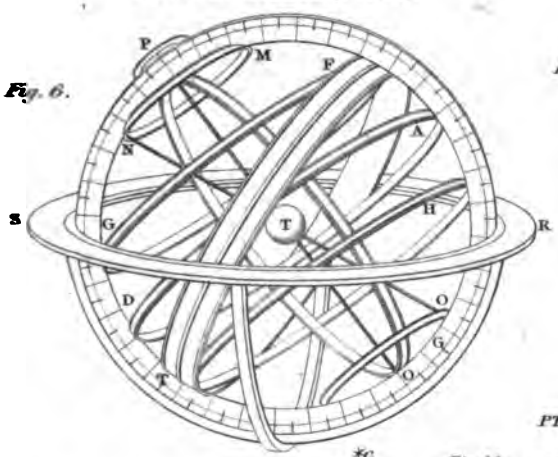


Fig 4.

For Fig. 5. see Fig. 14. Plate 2. Astronomy

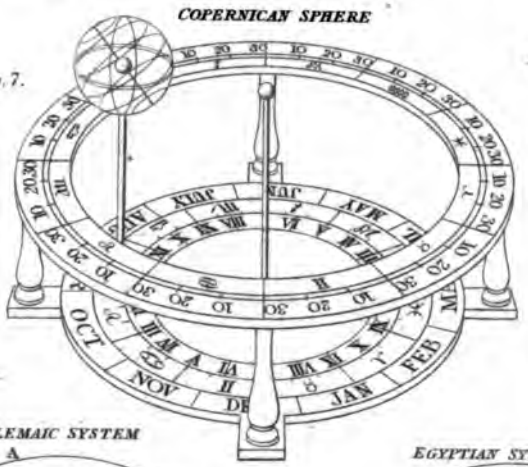
PTOLEMAIC ARMILLARY SPHERE

Fig. 6.



COPERNICAN SPHERE

Fig. 7.



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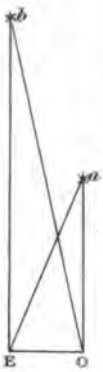


STARS

Fig. 9.

Fig. 10.

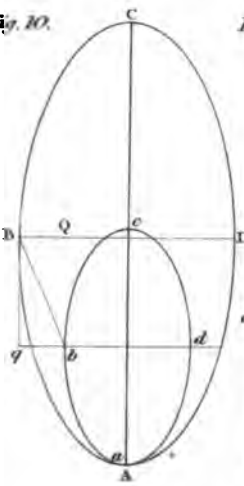
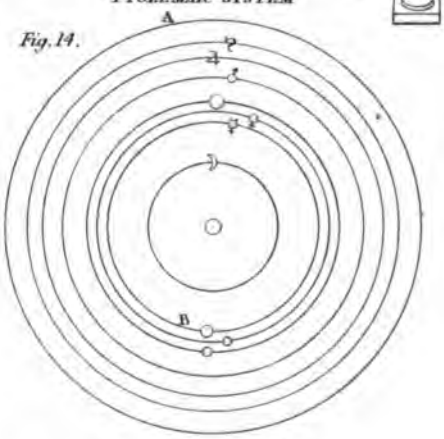


Fig. 11.

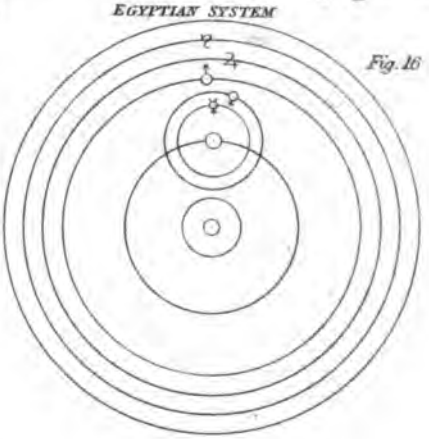
PTOLEMAIC SYSTEM

Fig. 14.



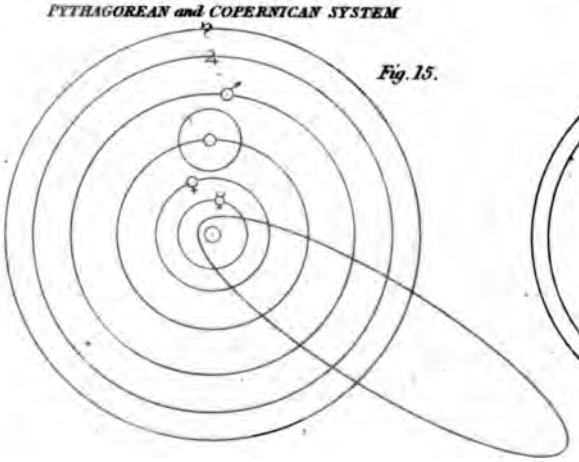
EGYPTIAN SYSTEM

Fig. 16



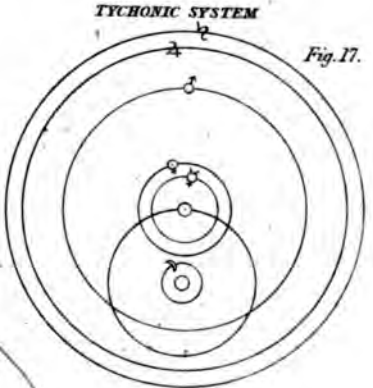
PYTHAGOREAN and COPERNICAN SYSTEM

Fig. 15.



TYCHONIC SYSTEM

Fig. 17.



STARS

Fig. 12.

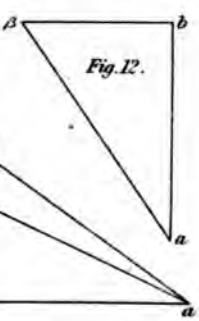


Fig. 13.

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Lowry sculp

ASTRONOMY.

SOLAR SYSTEM

Fig. 1.

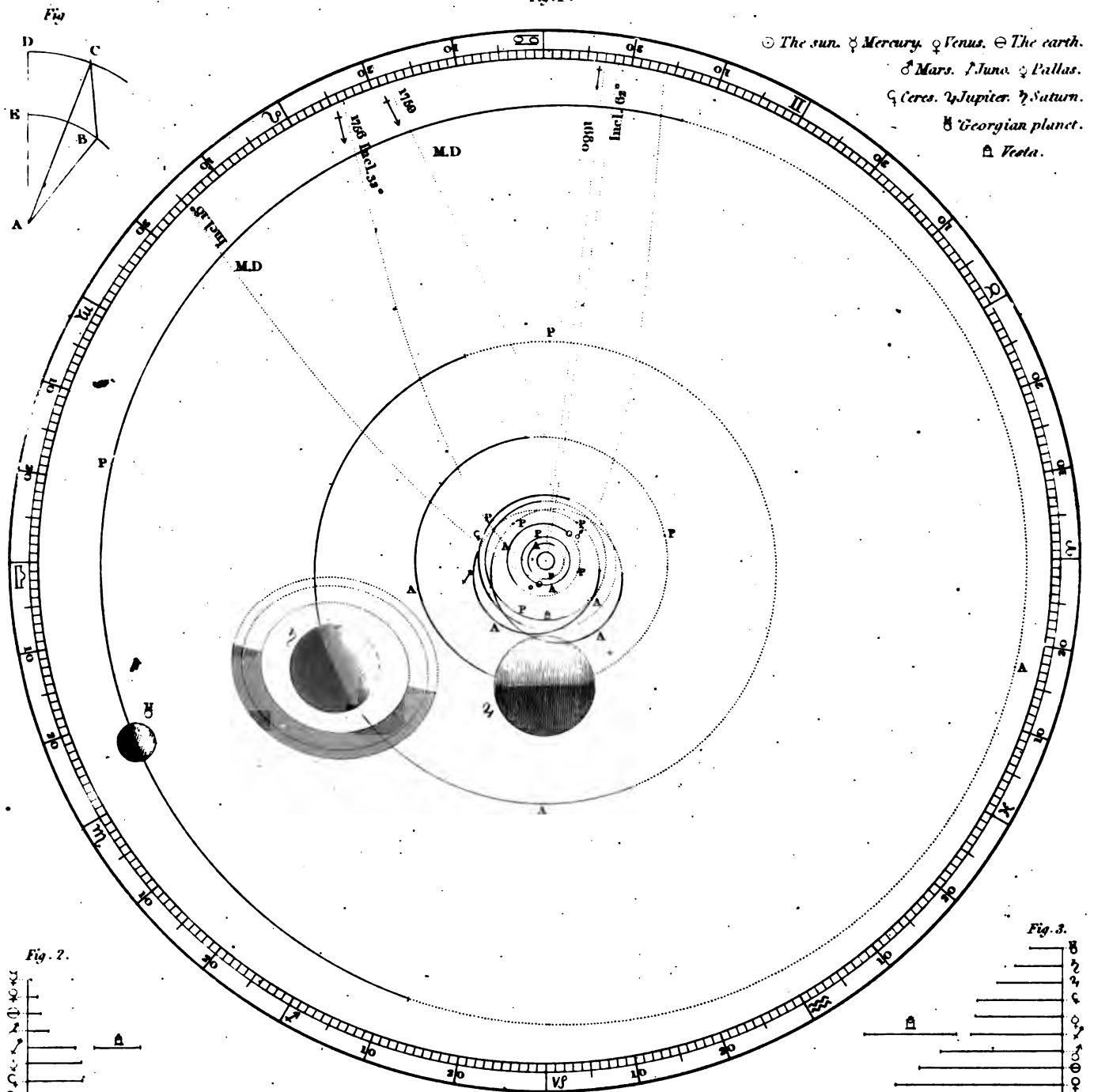
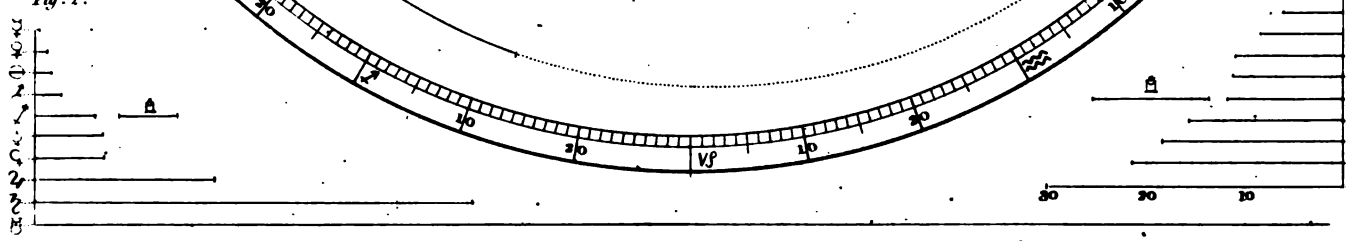


Fig.

Fig. 2.



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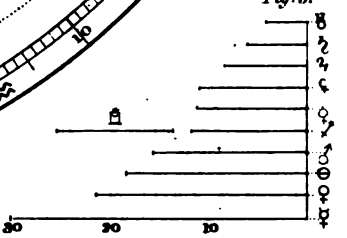

Fig. 4.

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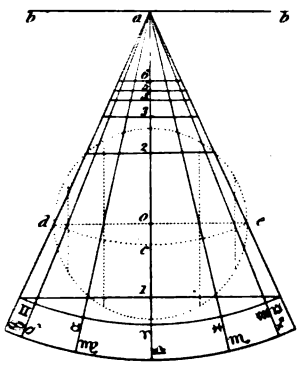
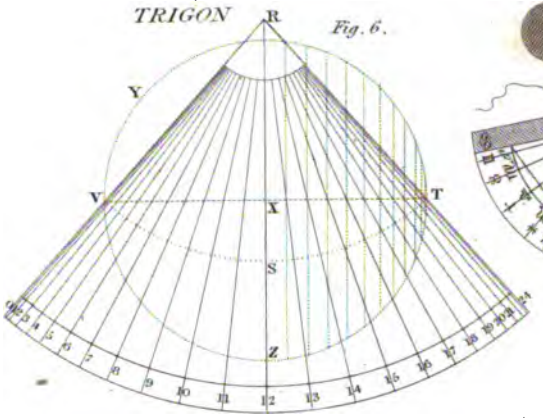
Lowry sculp.

Fig. 5.



TRIGON

Fig. 6.



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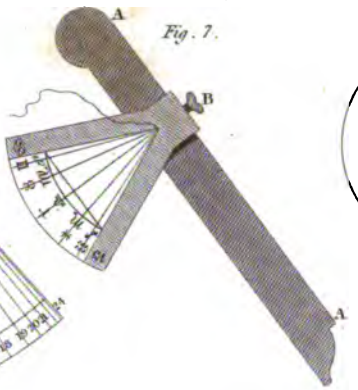
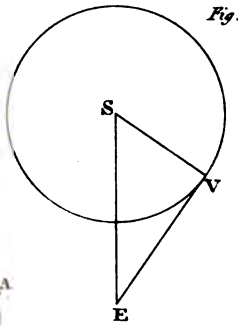


VENUS

Fig. 8.



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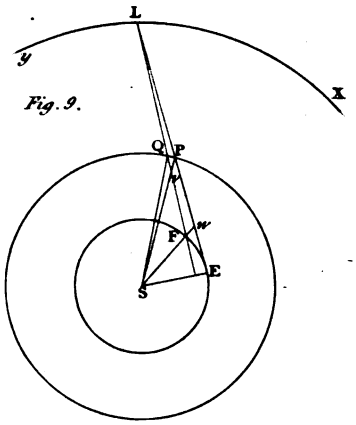

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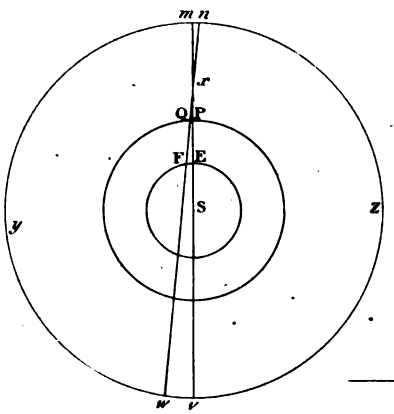

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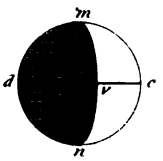
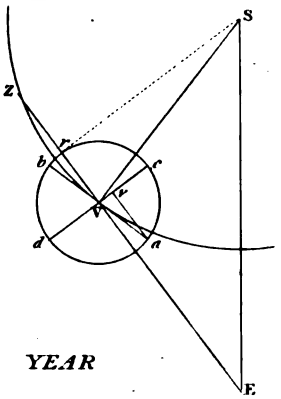




YEAR

Fig. 12.

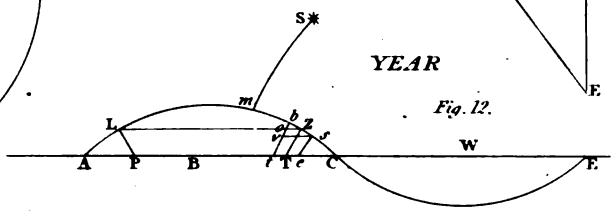
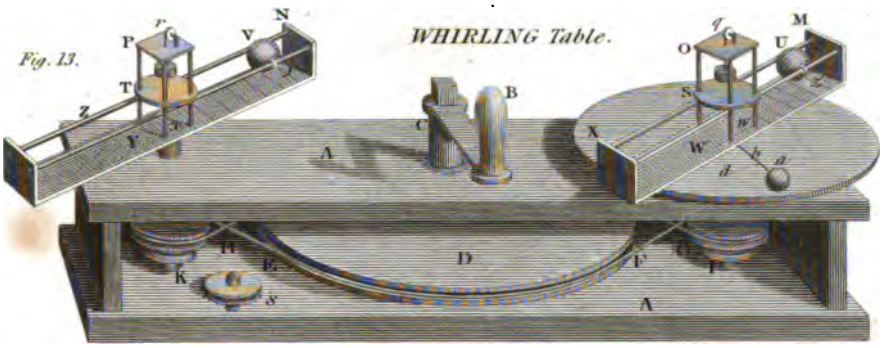


Fig. 13.

WHIRLING Table.



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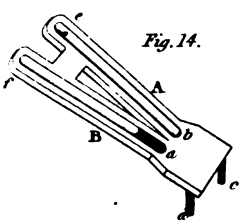

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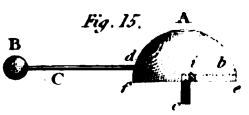
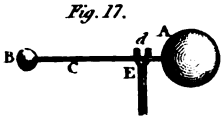


Fig. 16.

Fig. 17.



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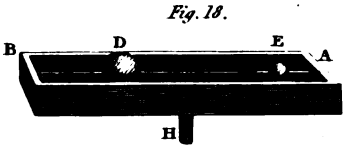

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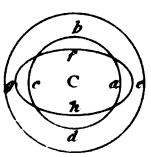


Fig. 20.

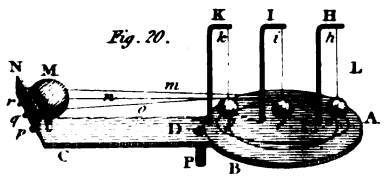


Fig. 21.

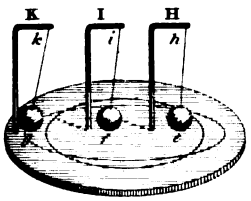
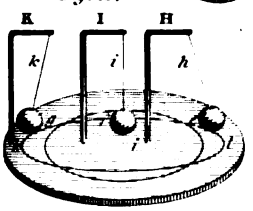


Fig. 22.



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Lowry Sc.

Published as the Act directs, Oct.1st 1814, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

ASTRONOMY.

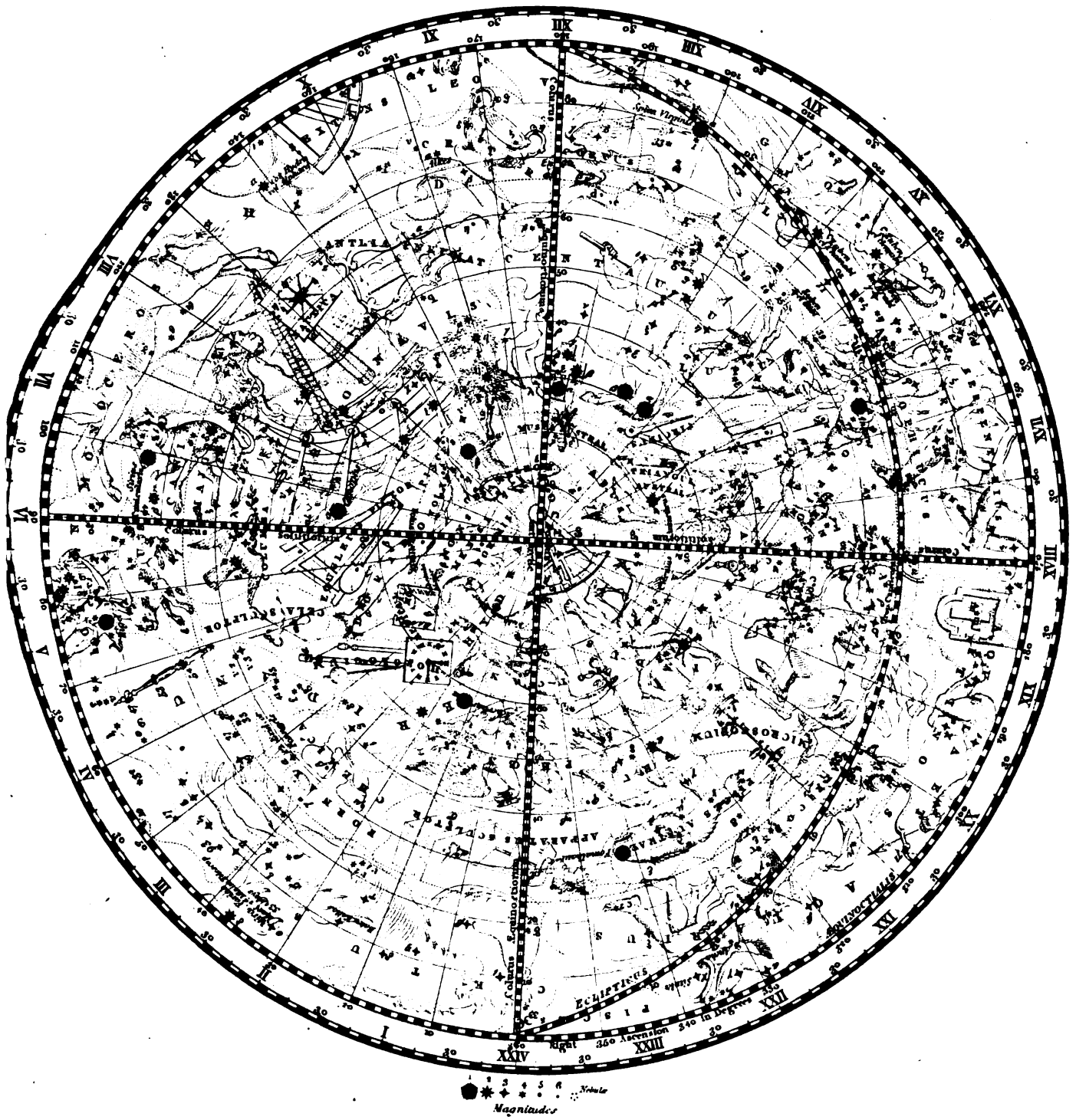
NORTHERN HEMISPHERE.

Published as the Act directs, Oct.1st 1822. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

ASTRONOMY

PLATE II.

SOUTHERN HEMISPHERE.



Published as the Act directs Feb.ry 1st 1810, by Longman Hurst Rees & Orme Paternoster Row.

CONSTELLATION.

Projected by right Ascension and Declination. — *ORION.* — *Corrected to the beginning of the Year 1808.* — PLATE 1

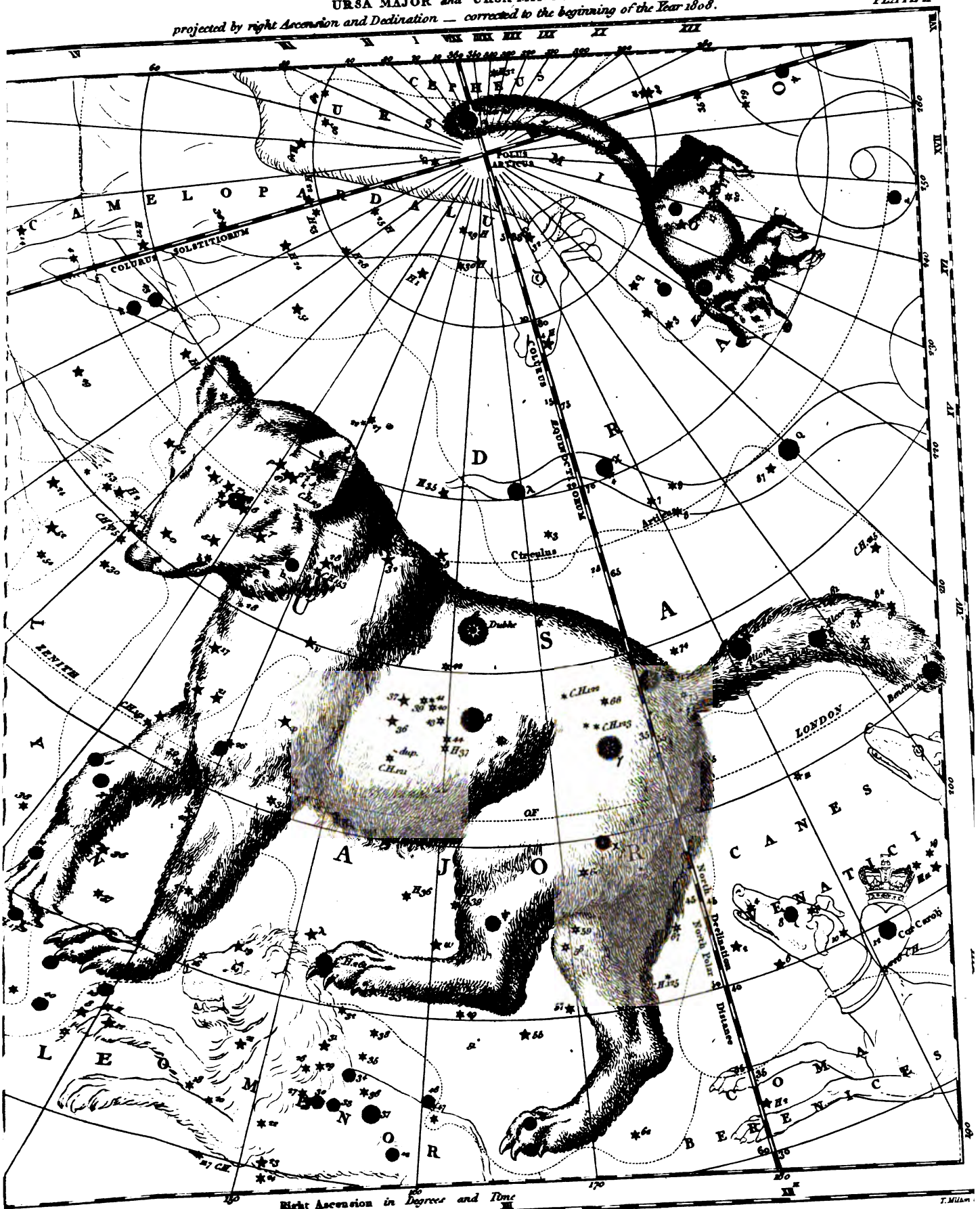
Published as the Act directs, Jan.ry 1st 1808, by Longman Hurst Rees & Orme Paternoster Row.

CONSTELLATIONS.

URSA MAJOR and URSA MINOR

projected by right Ascension and Declination — corrected to the beginning of the Year 1808.

PLATE II



The numbers Letters & Greek Characters refer to the British Catalogue.

H. to Hevelius's. *C.H. to* C.Herschels.

Published as the Act directs. Feb.ry 1st 1808. by Longman Hurst Rees & Orme Paternoster Row.

ASTRONOMICAL INSTRUMENTS.

Fig. 1.

Astrolabe

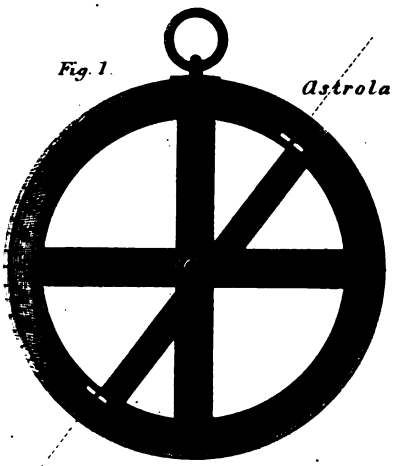


Fig. 2.

Davis's Quadrant

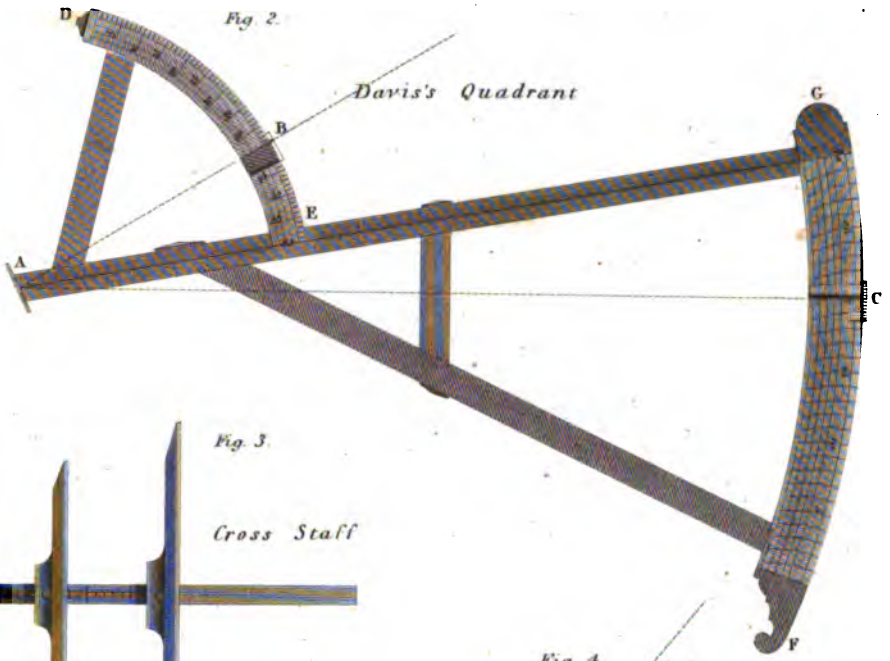


Fig. 3.

Cross Staff

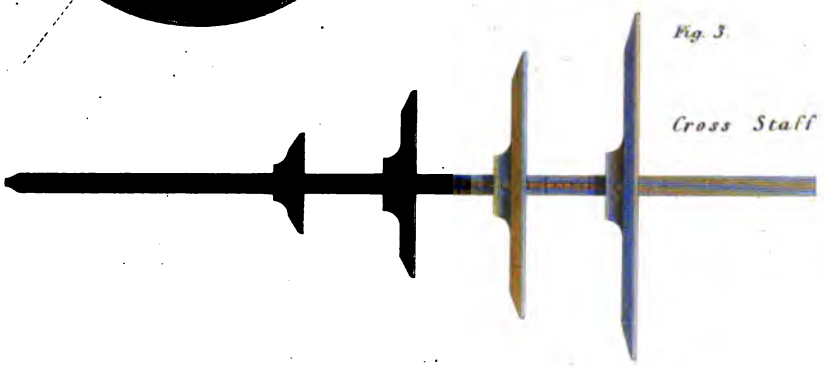


Fig. 4.

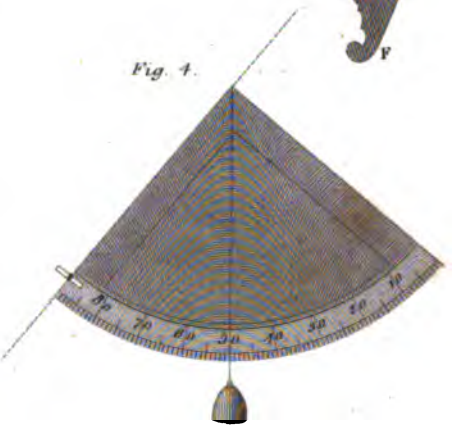


Fig. 5.

Elton's Quadrant

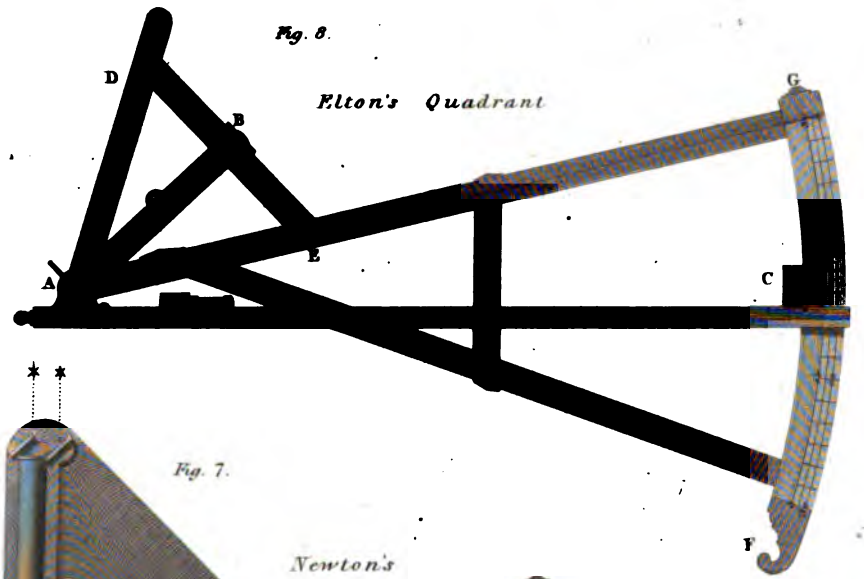


Fig. 6.

Nocturnal or

Star Dial

Fig. 7.

Newton's

J Farey Junr. delin.

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Lowry Sc.

CIRCLE.

Fig. 2.

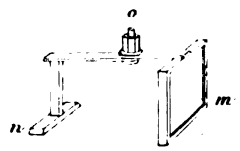
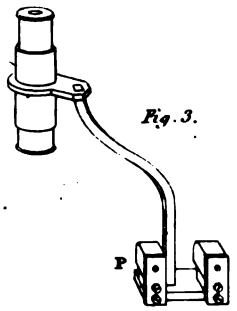


Fig. 3.



Mayer's Circle.

Fig. 1.

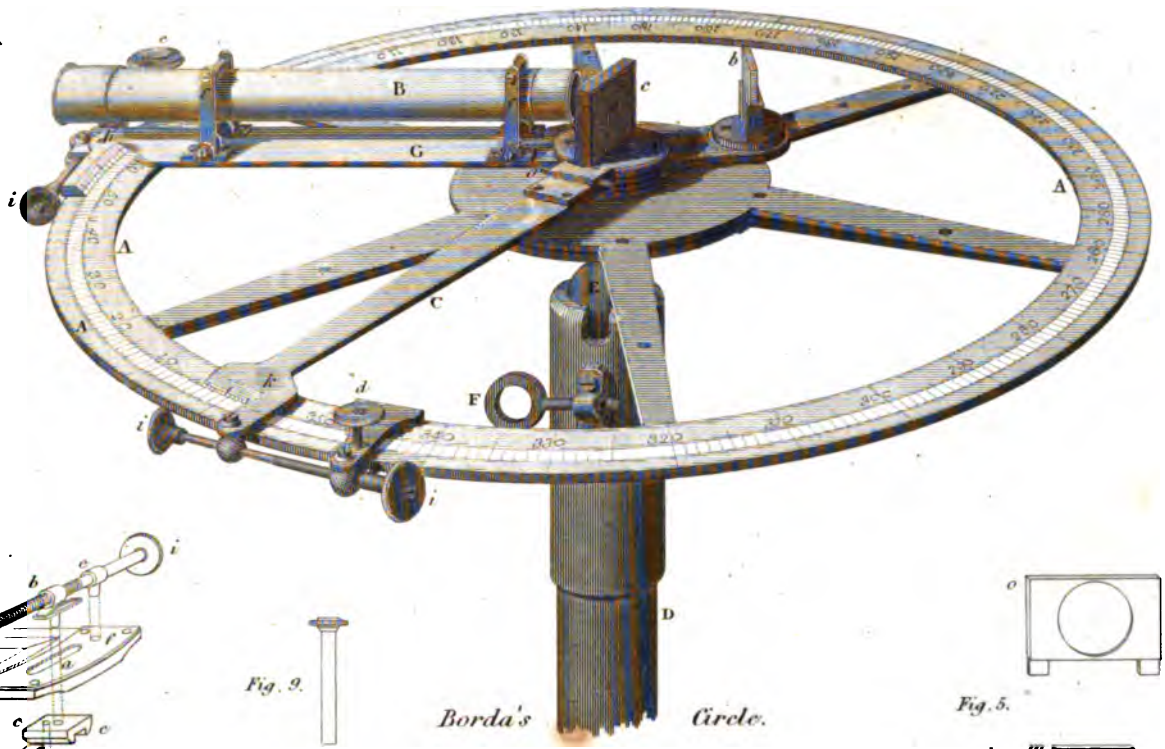


Fig. 6.

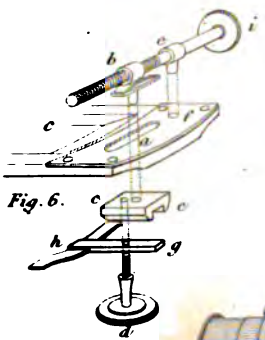


Fig. 9.

Borda's Circle.

Fig. 5.

Fig. 4.

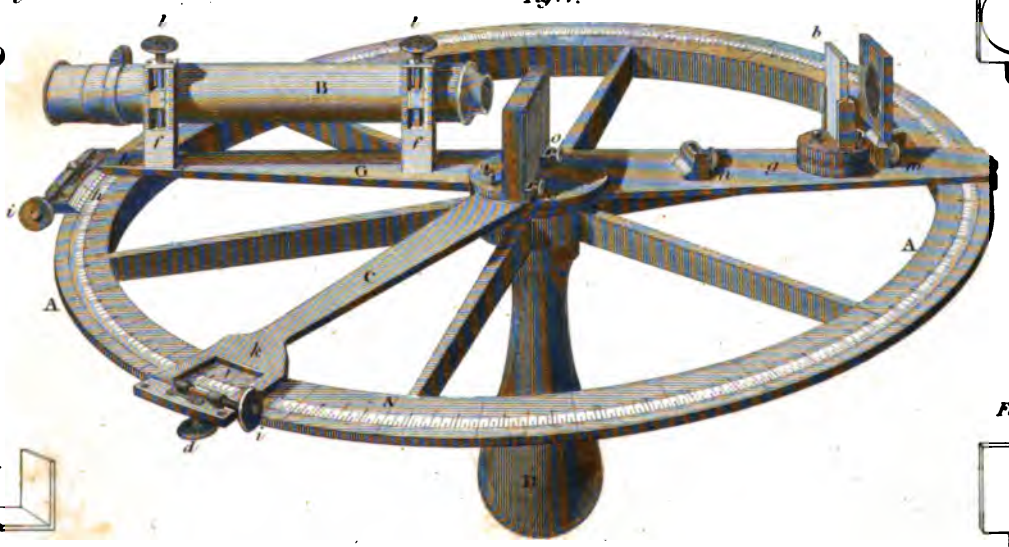


Fig. 7.

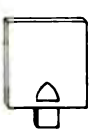


Fig. 8.

The English REFLECTING CIRCLE *by Troughton.*

Fig. 1.

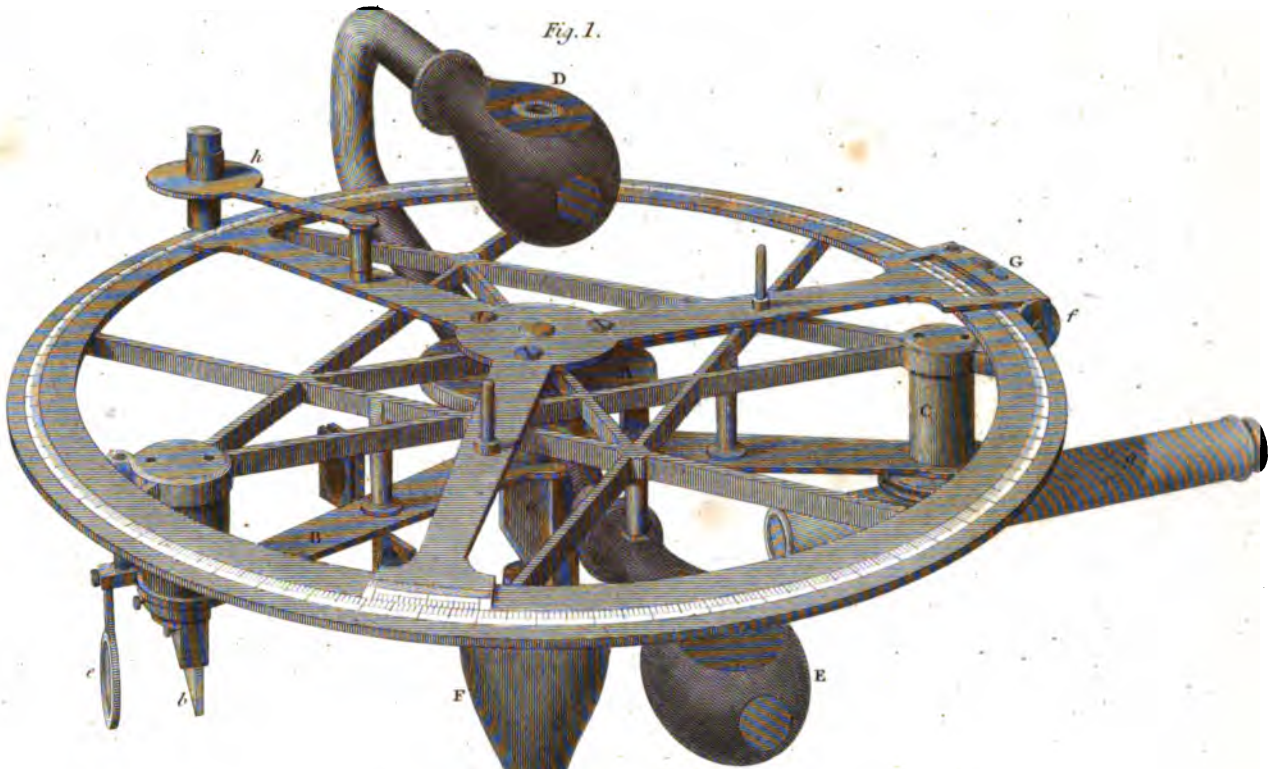
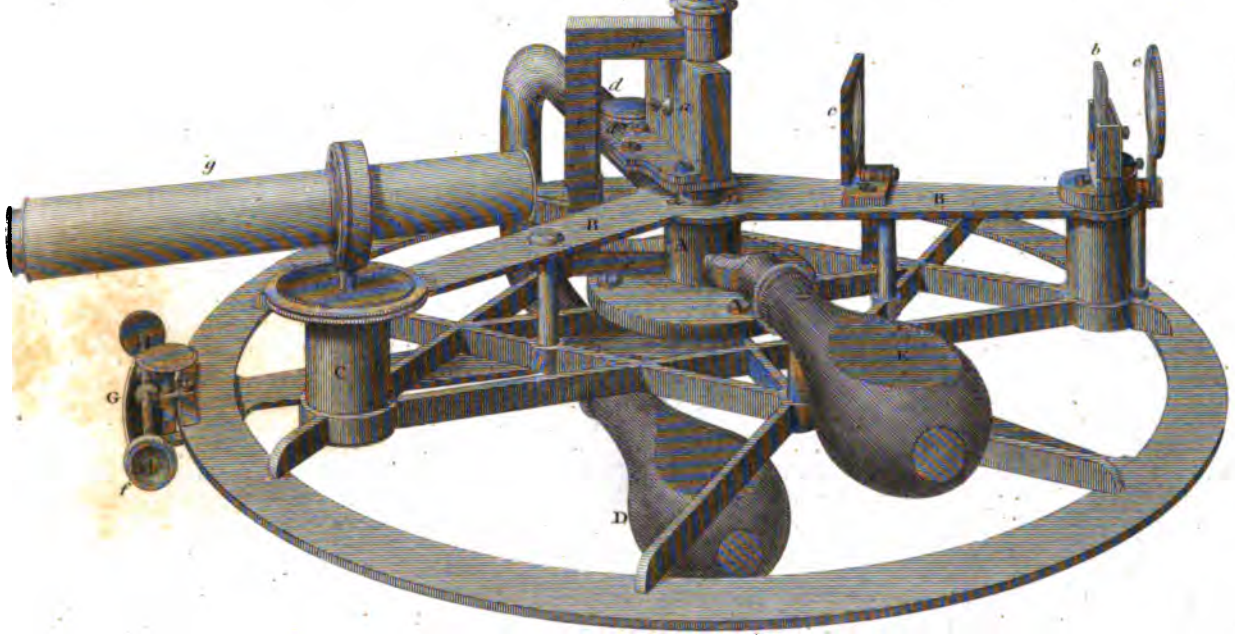


Fig. 2.



J. Farey Junr. delin. Published as the Act directs, 1816, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry Sc.

ASTRONOMICAL INSTRUMENTS.

Fig. 1.

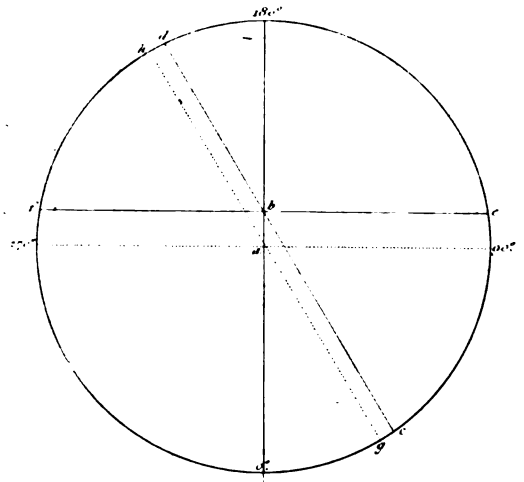


Fig. 2.

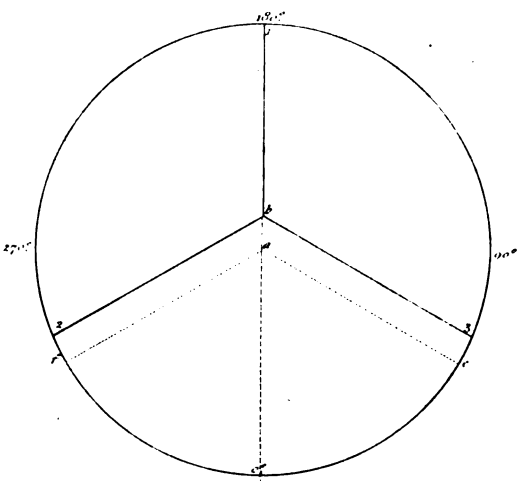


Fig. 3.

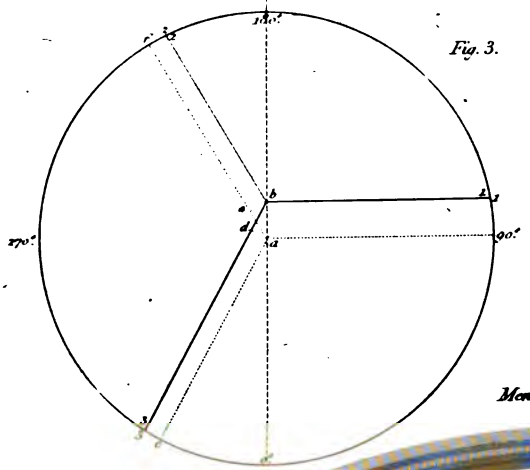
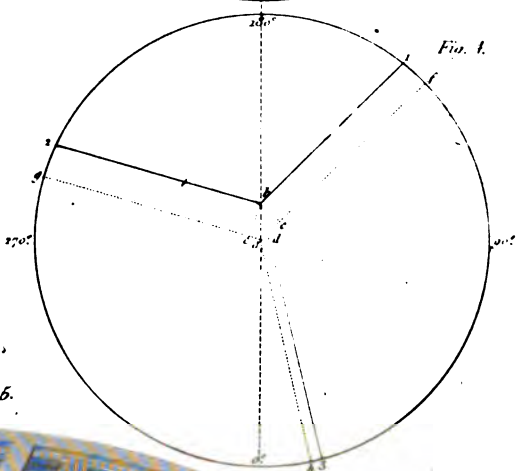
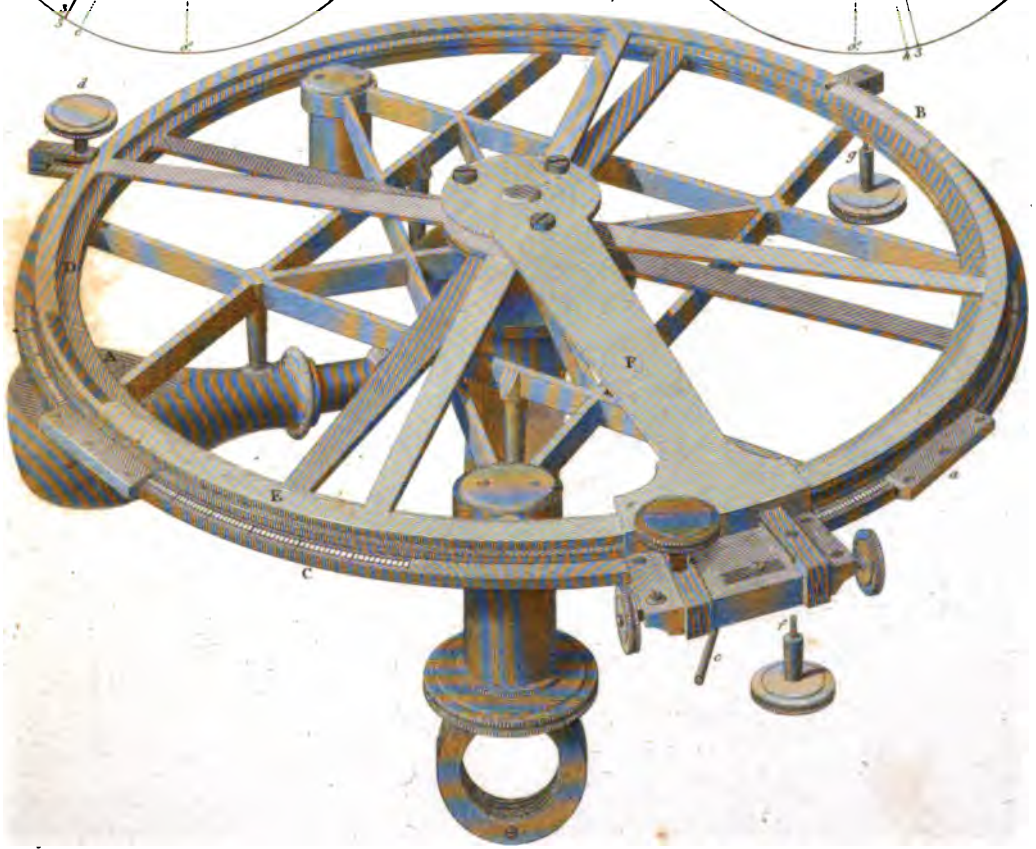


Fig. 4.



Mendozas Circle Fig. 5.



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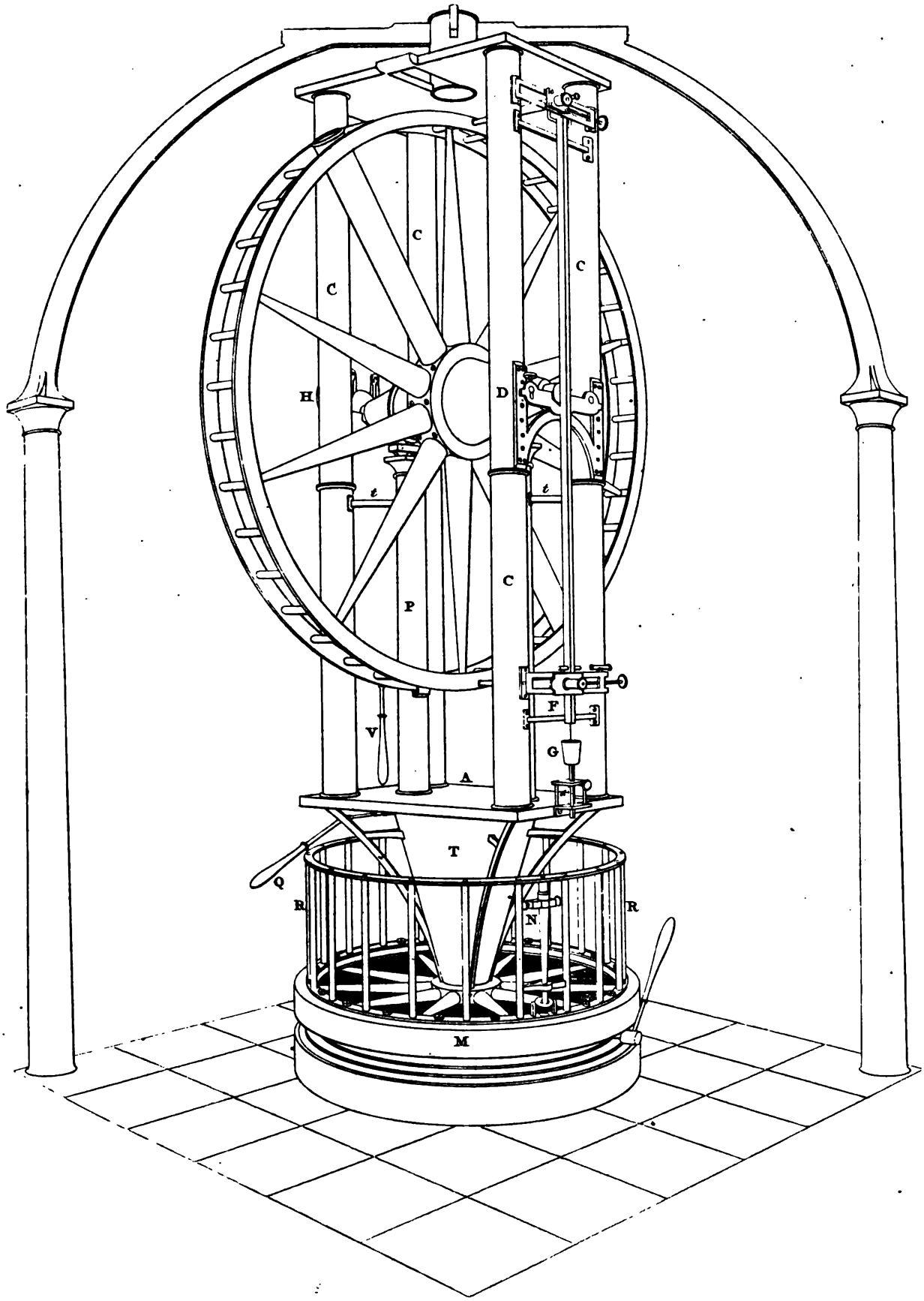
Engraved by W. Lowry.

ASTRONOMICAL INSTRUMENTS.

Ramsden's, CIRCLE.



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Lowry Sc.

Borda's repeating Circle without reflection.

Drawn by J. Farey Jun.r Published as the Act directs 1820, by Longman Hurst Rees Orme & Brown Paternoster Row. Engraved by Sid.y Hall.

The Repeating CIRCLE without reflection by Troughton.

Fig. 1.

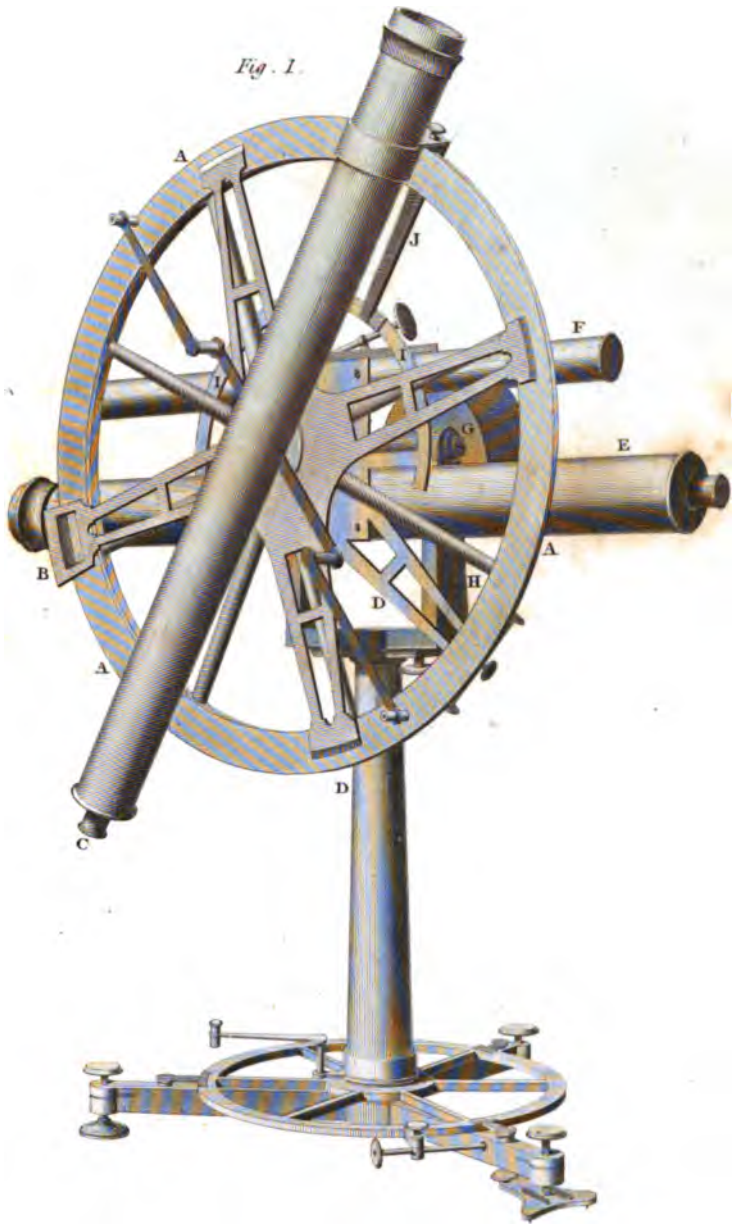
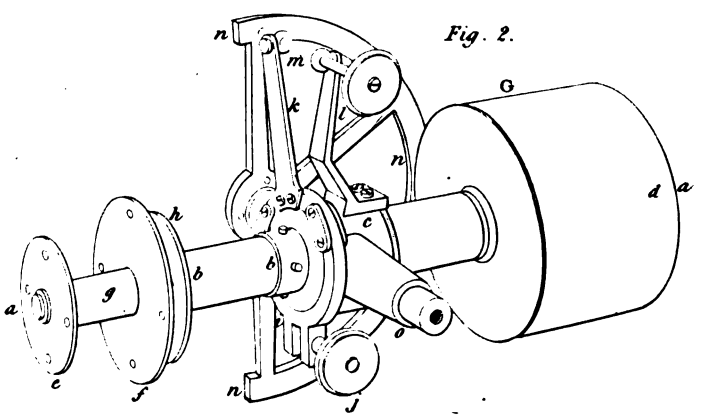


Fig. 2.



J. Farey, Junr. del. Published as the Act directs, 1810, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry, sc.

ASTRONOMICAL INSTRUMENTS.

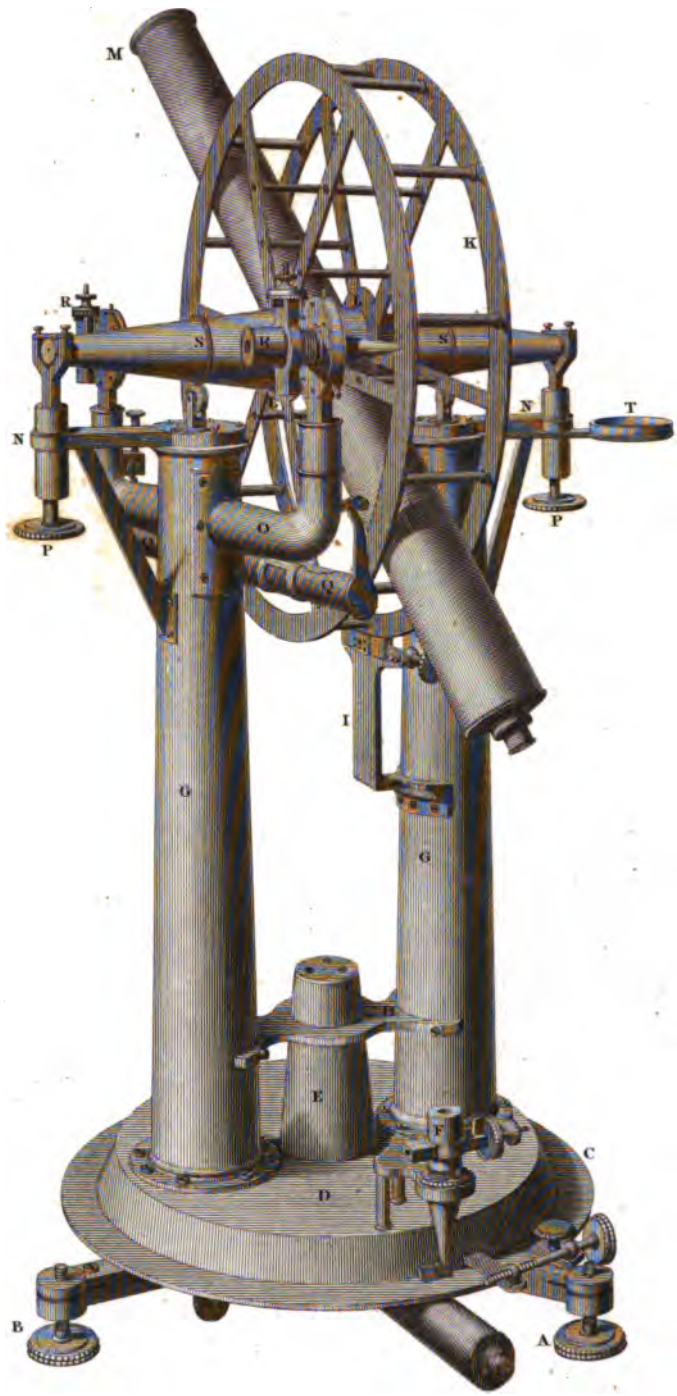
CIRCLE

by the Rev.d Francis Woollaston.

J. Farey Junr. del. Published as the Act directs, 1812, by Longman, Hurst, Rees and Co. Paternoster Row. Engraved by Lowry.

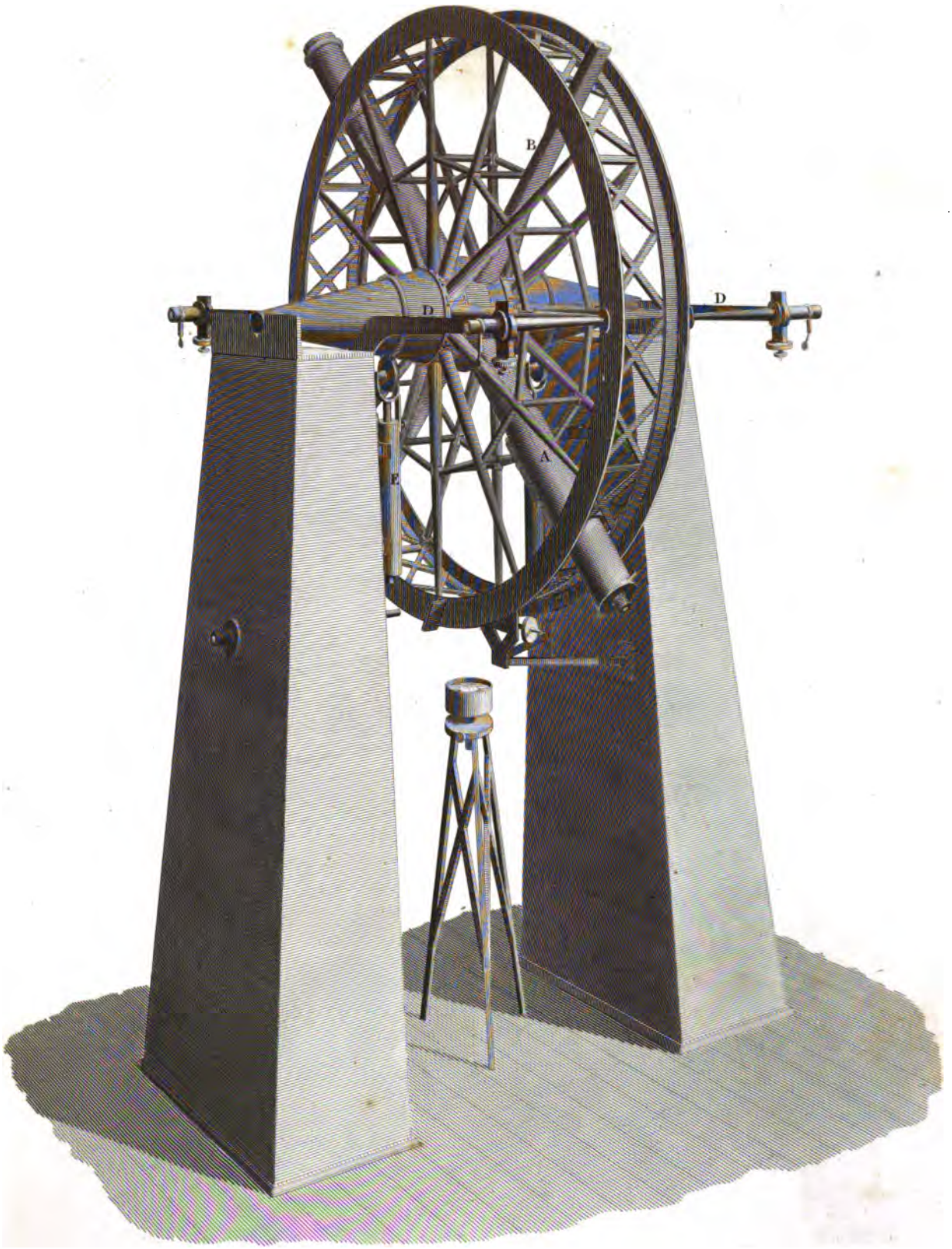
ASTRONOMICAL INSTRUMENTS.

Portable CIRCLE by Troughton.



Published as the Act directs, 1817, by Longman, Hurst, Rees, Orme, & Brown, Paternoster Row, London.

TROUGHTON'S MURAL CIRCLE.



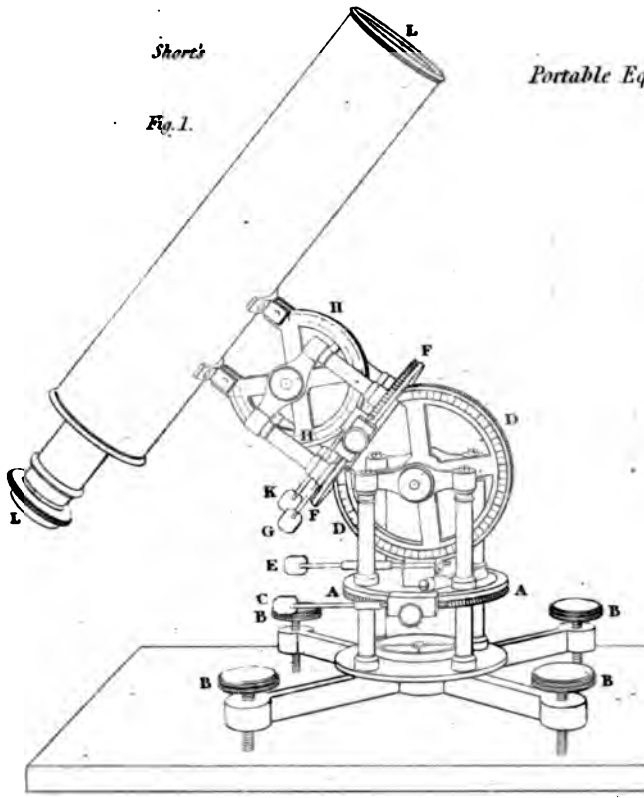
Drawn by J. Farey Junr. from the Instrument in the possession of S. Groombridge Esq.

Published as the Act directs 1820 by Longman Hurst Rees Orme & Brown Paternoster Row.

Portable Equatorial Instruments

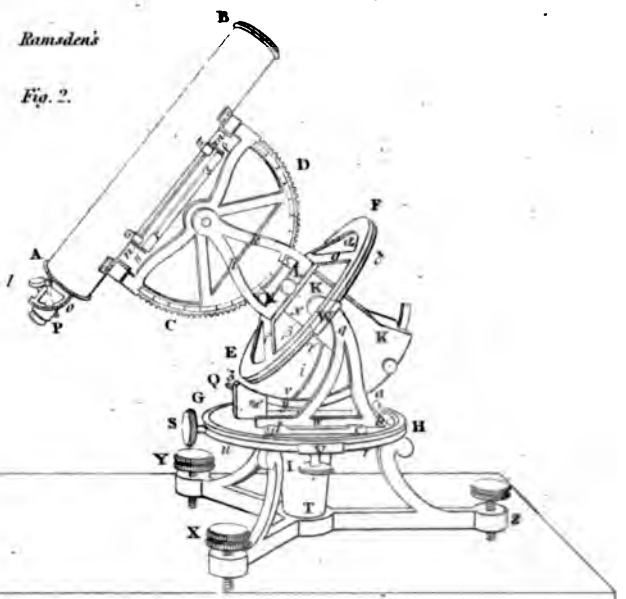
Short's

Fig. 1.



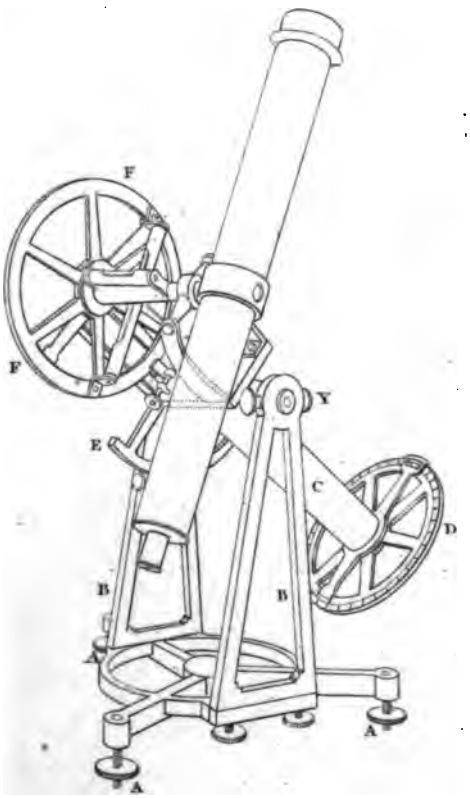
Ramsden's

Fig. 2.



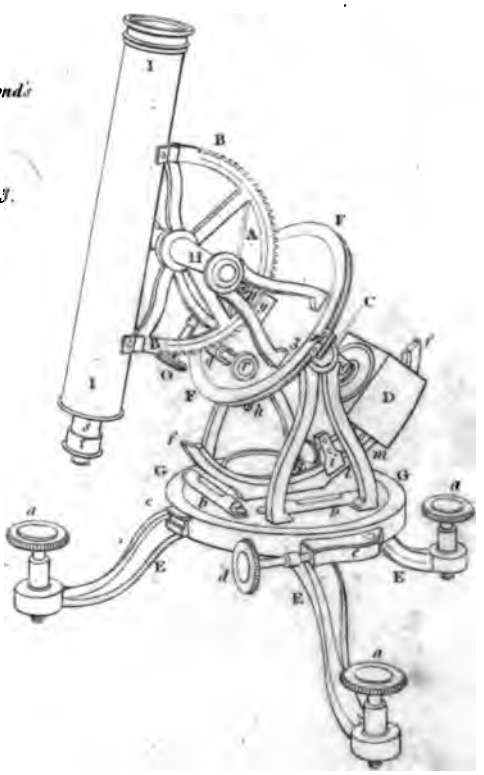
Fagnet's

Fig. 4.



Dollond's

Fig. 3.



Jun. del. Published as the Act directs, 1810, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row, London. Lowry sculp.

Dollond's,
OBJECT GLASS, MICROMETER.

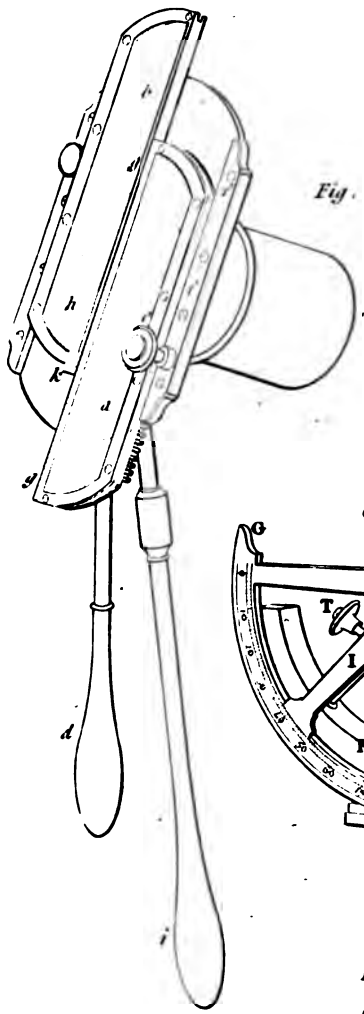
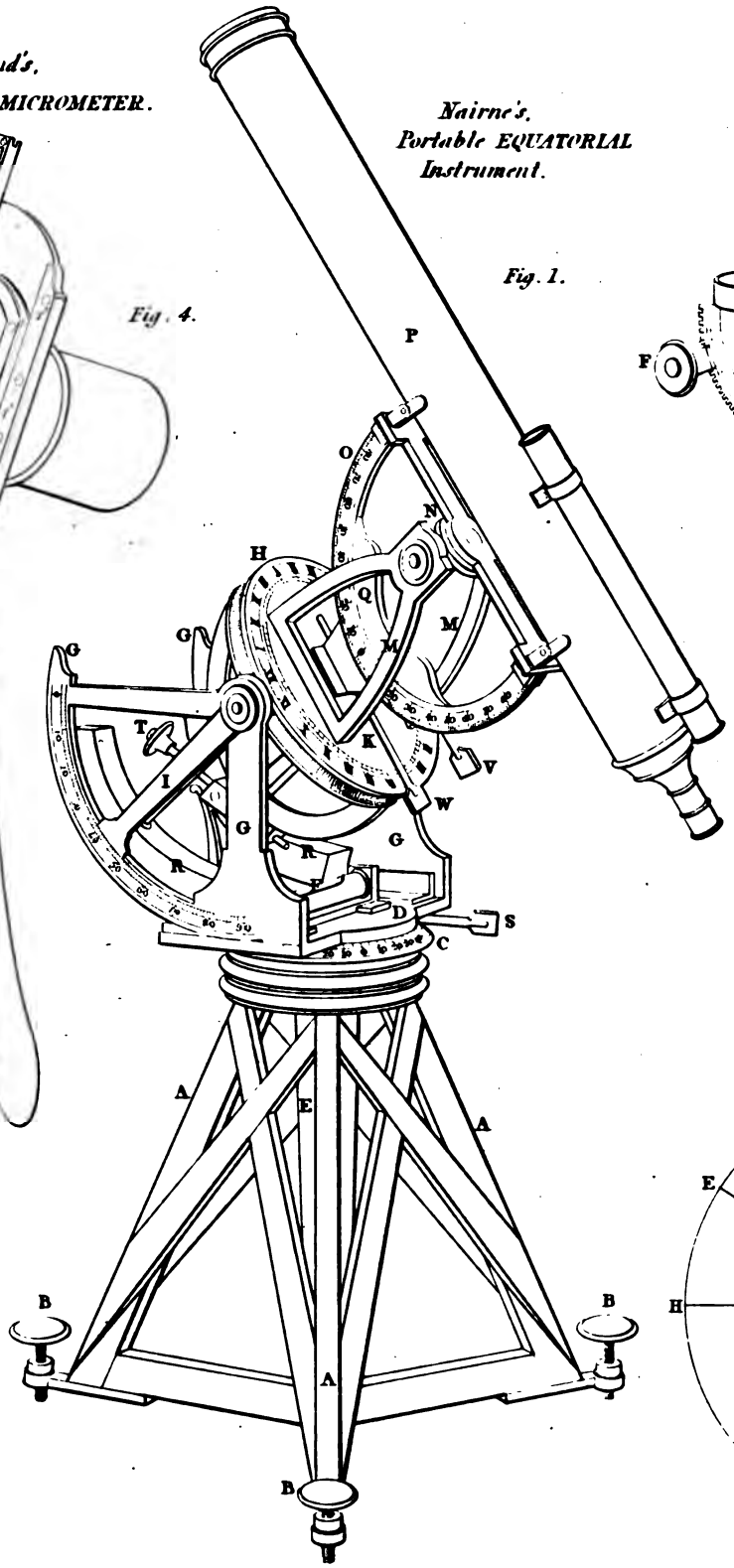


Fig. 4.

Nairne's,
Portable EQUATORIAL
Instrument.

Fig. 1.



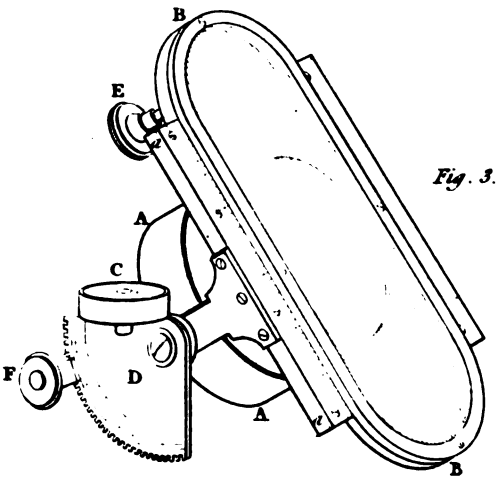
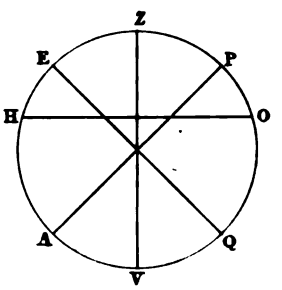


Fig. 3.

Dollond's,
REFRACTION Apparatus.

Fig. 4.



Ramsden's,
REFRACTION Apparatus.

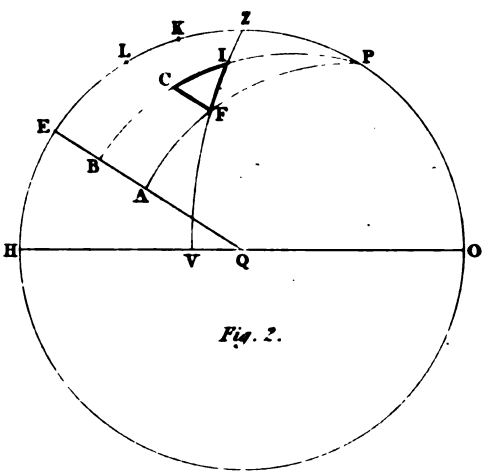


Fig. 2.

J. Farey, delin. Published as the Act directs, 1824, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Lowry, Sc.

ASTRONOMICAL INSTRUMENTS.

Equatorial Stand of a Telescope.

Fig. 6.

Mr. Graham's Equatorial Sector.

Fig. 1.

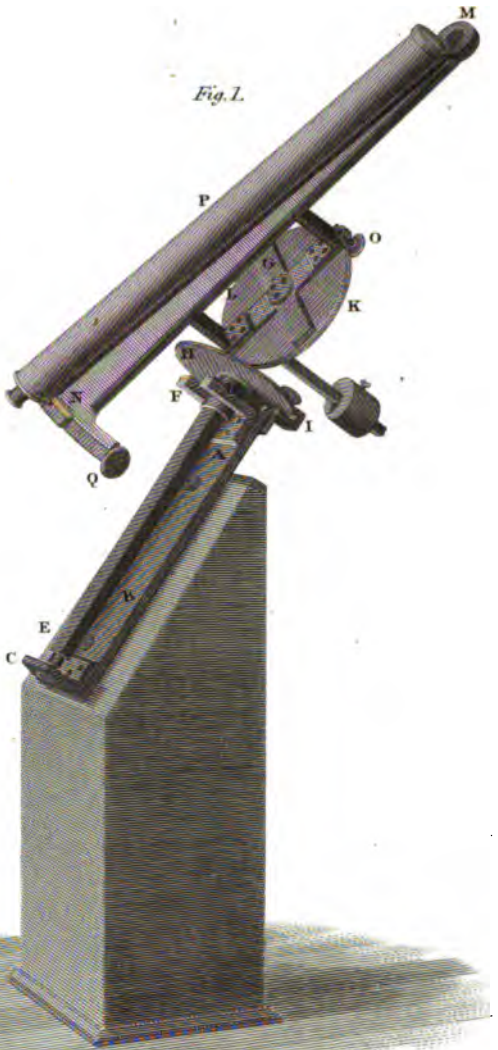


Fig. 2.

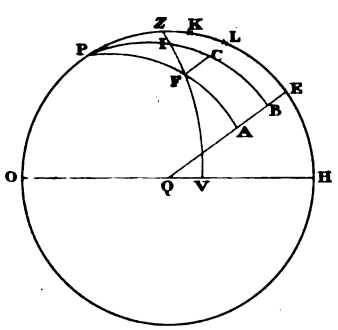


Fig. 3.

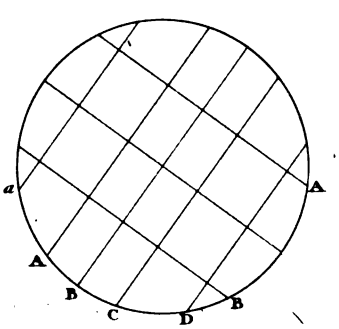
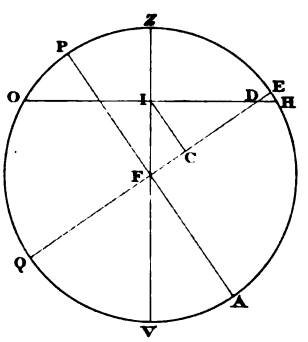


Fig. 4.



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Lowry sculp.

ASTRONOMICAL INSTRUMENTS.

Universal EQUATORIAL, Instrument by Troughton.

J. Farey Junr. delin.

Published as the Act directs, 1st Jany. 1817, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Lowry Sc.

Equatorial Instrument made by Ramsden for Sir Geo.r Shuckburgh.

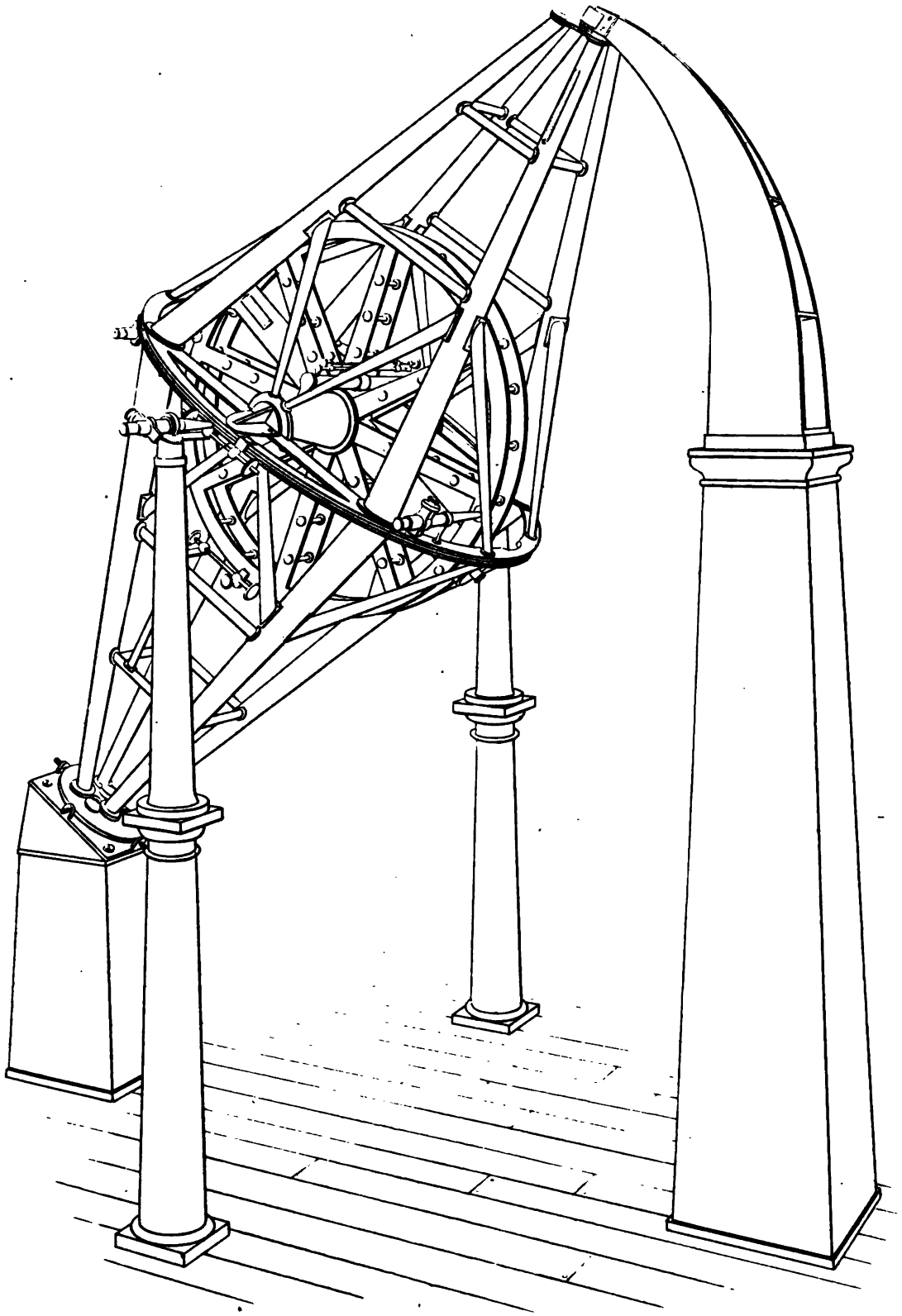
In viewing this picture, the eye of the Spectator should be placed at 12 inches perpendicular distance from the intersections of the lines V.V. *&* W.W.

Drawn by J. Farey Jun.r *Published as the Act directs, 1820, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.* *Engraved by S.*

ASTRONOMICAL INSTRUMENTS.

EQUATORIAL Instrument at Armagh.

made by Troughton.



J. Farey, del. Published as the Act directs, 1st Sep. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. W. Lowry, sc.

Fig. 1.

Sisson's Equatorial Sector.

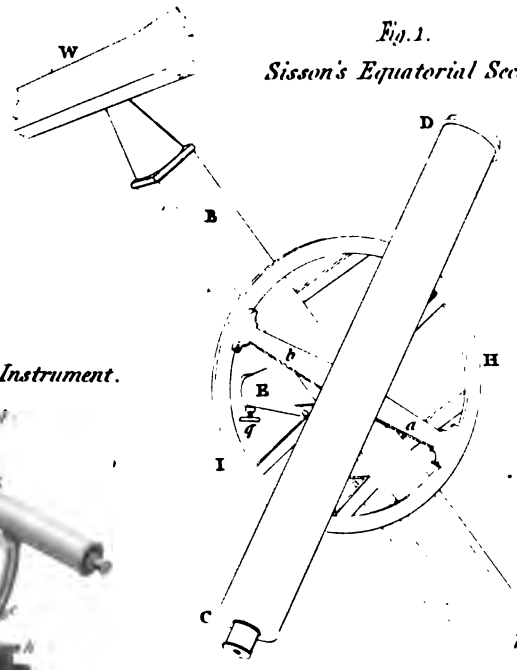
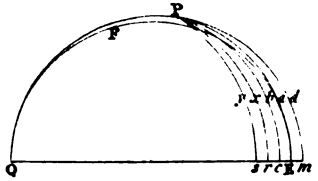


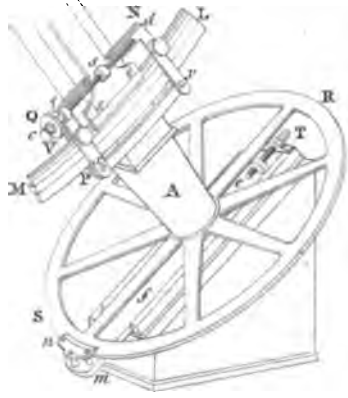
Fig. 5.

Earl of Ilay's Equal Altitude Instrument.

Fig. 4.

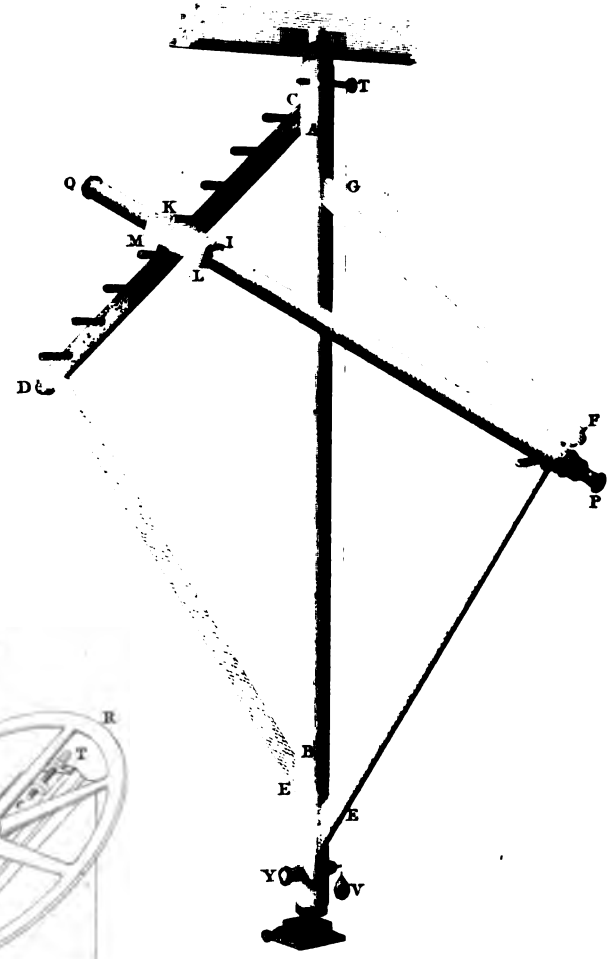
Fig. 2.





Mr. Cote's Equal Altitude Instrument.

Fig. 3.



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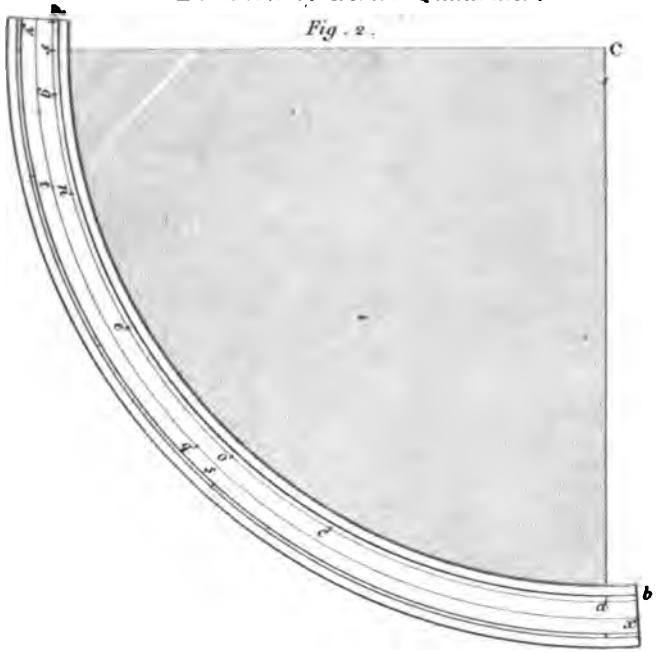
Engraved by Wilson Lowry.

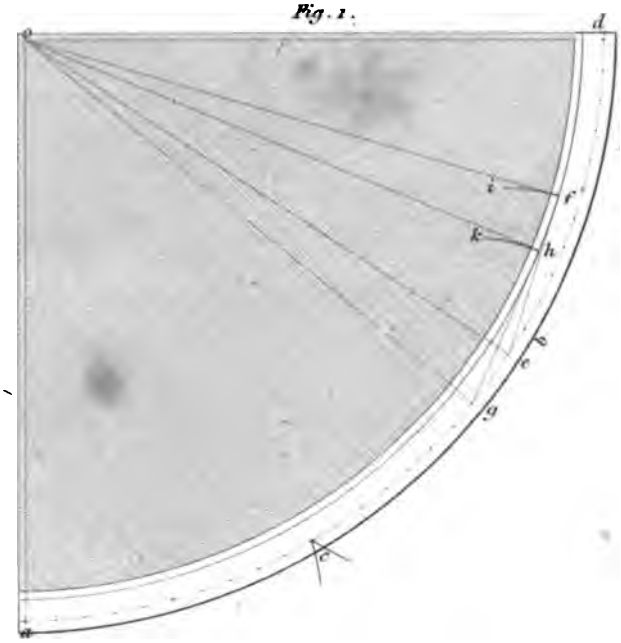
Division of Bird's Quadrant.

Fig. 2.



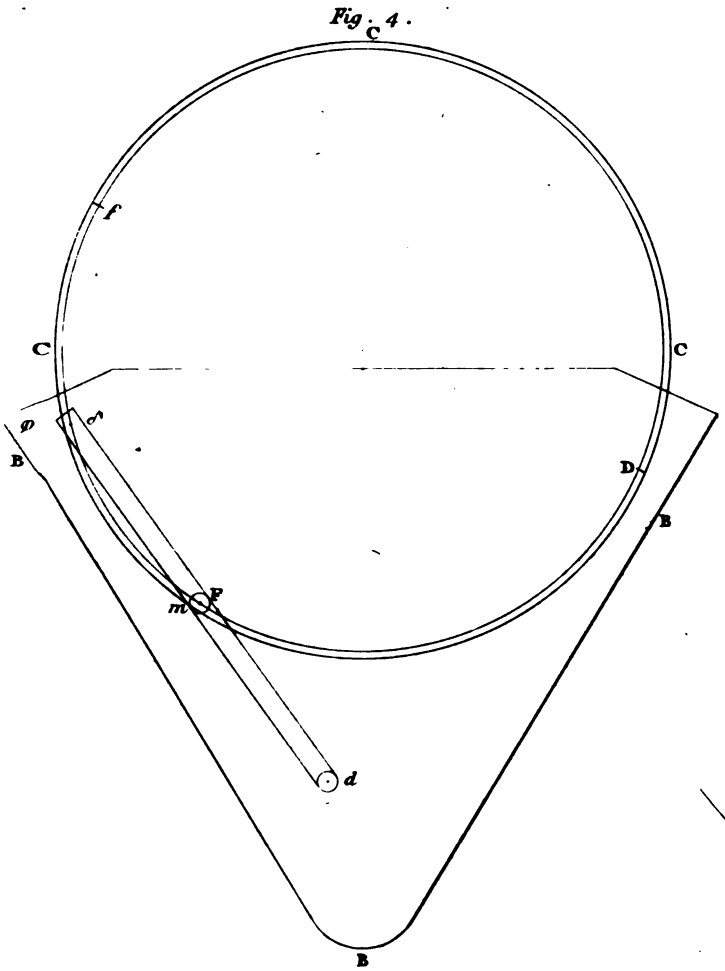
Division of Graham's Quadrant.

Fig. 1.



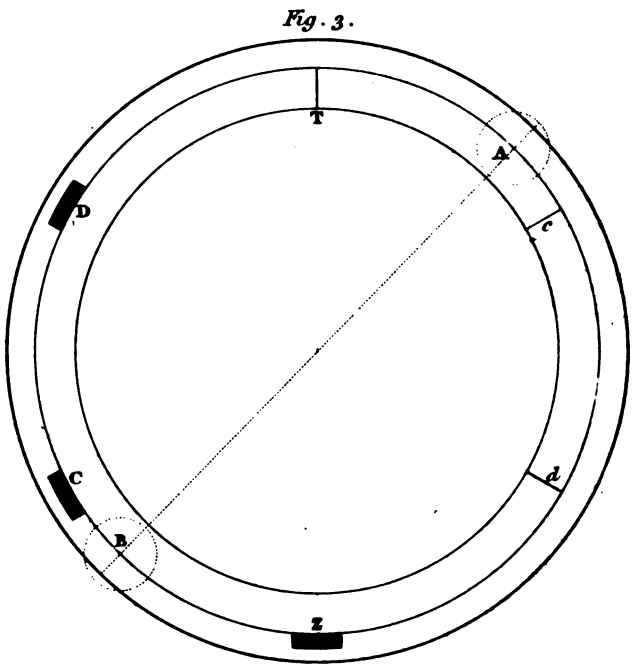
Mr. Cavendish's Dividing.

Fig. 4.



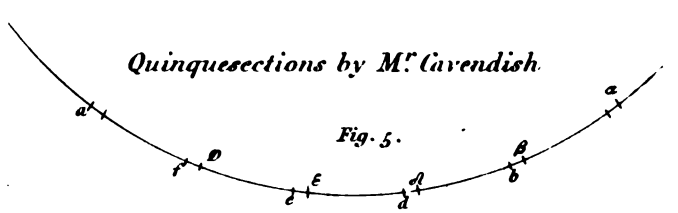
duc de Chaulne's Dividing.

Fig. 3.



Quinquesections by Mr. Cavendish.

Fig. 5.



J. Farey Junr. delin. Published as the Act directs, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row. Engraved by W. Lowry.

ASTRONOMICAL INSTRUMENTS.

GRADUATION.

Troughton's method of Graduating a Circle.

Fig. 1.

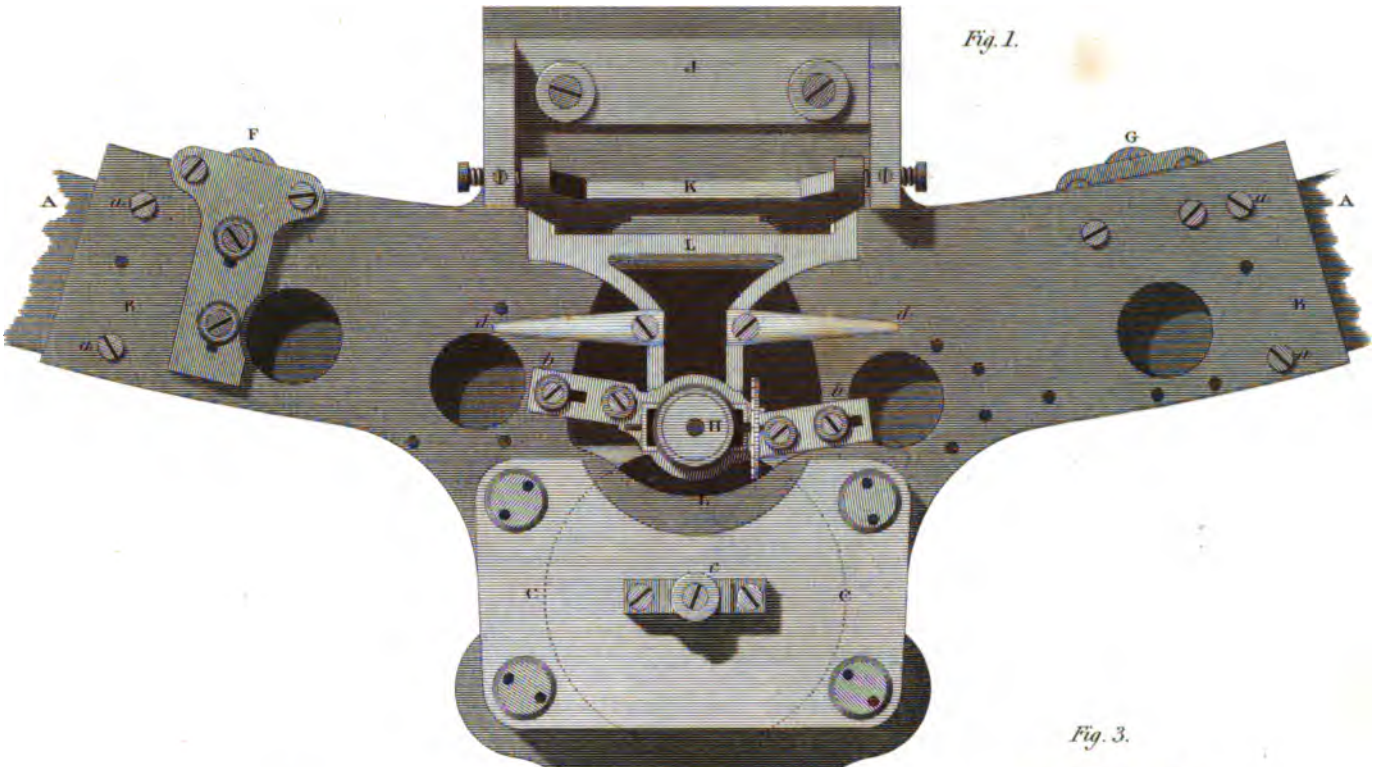


Fig. 2.

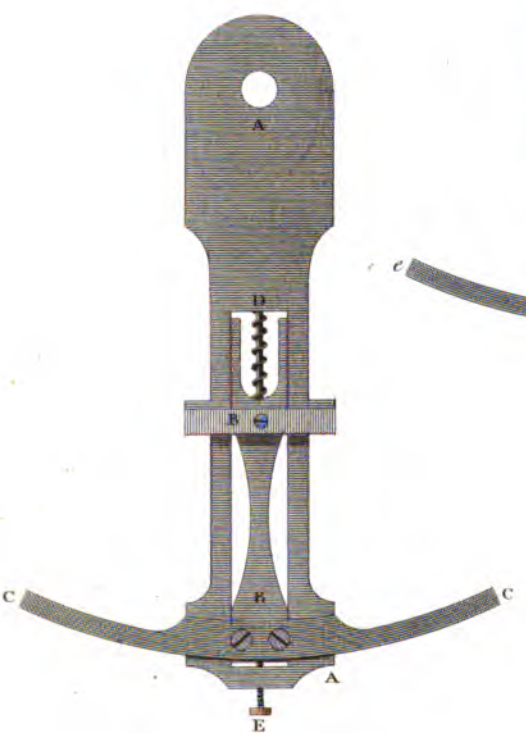
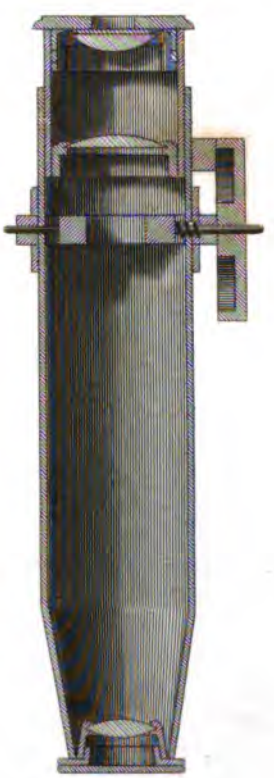


Fig. 3.



Parry Jun. del. Published as the Act directs, 1823, by Longman, Hurst, Rees, Orme and Brown, Paternoster Row, London. Engraved by W. Lowry.

Troughton's method of Graduating a Circle.

Fig. 4.

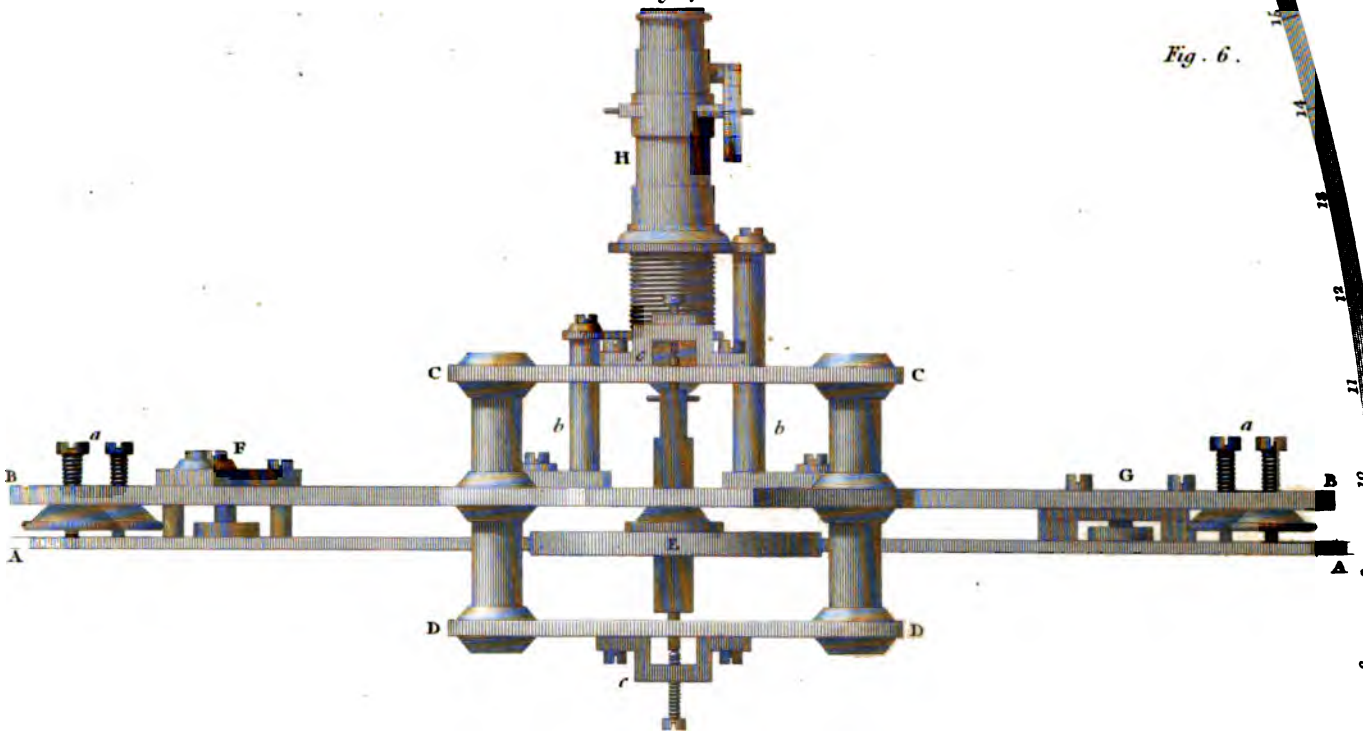
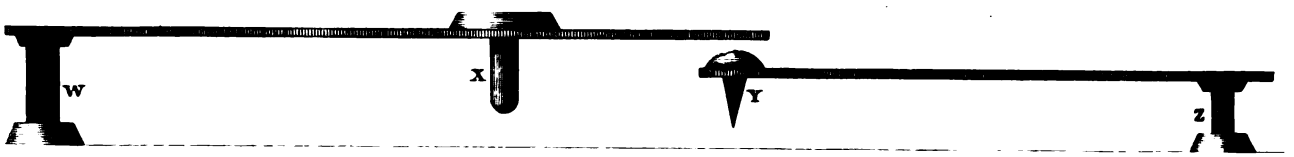


Fig. 6.

Fig. 5.



Farey Junr delin. Published as the Act directs, 1813 by Longman, Hurst, Rees, Orme & Co Paternoster Row. Engraved by W. Lowry.

GRADUATION.

by Clavius

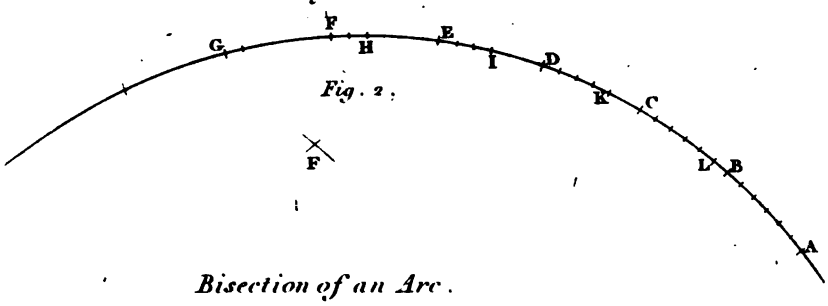


Fig. 2.

Bisection of an Arc.

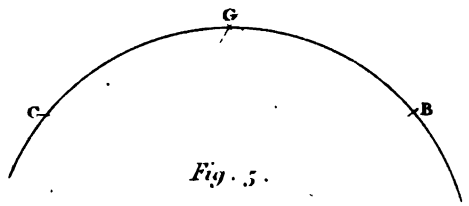


Fig. 5.

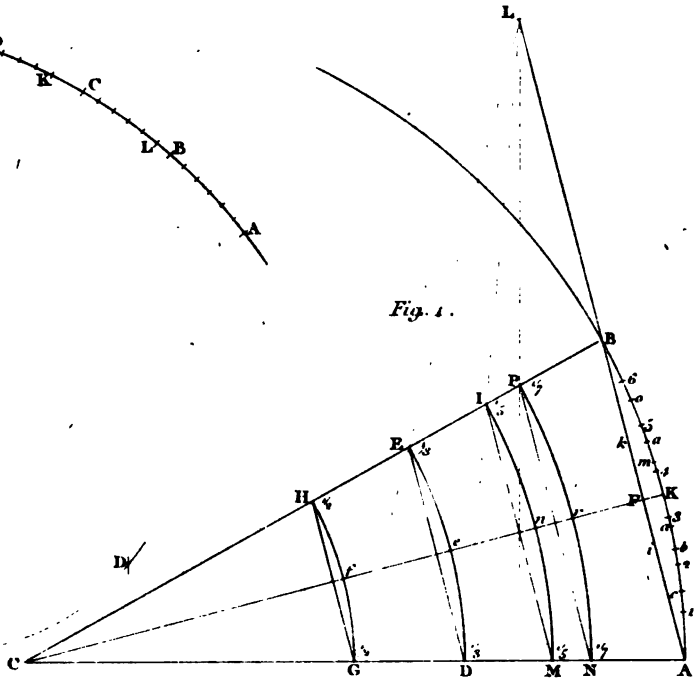
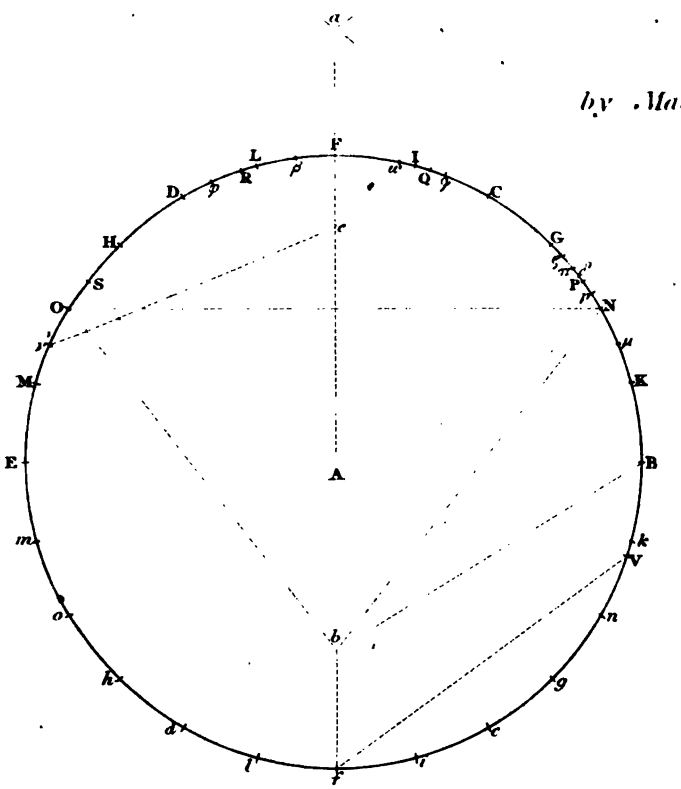


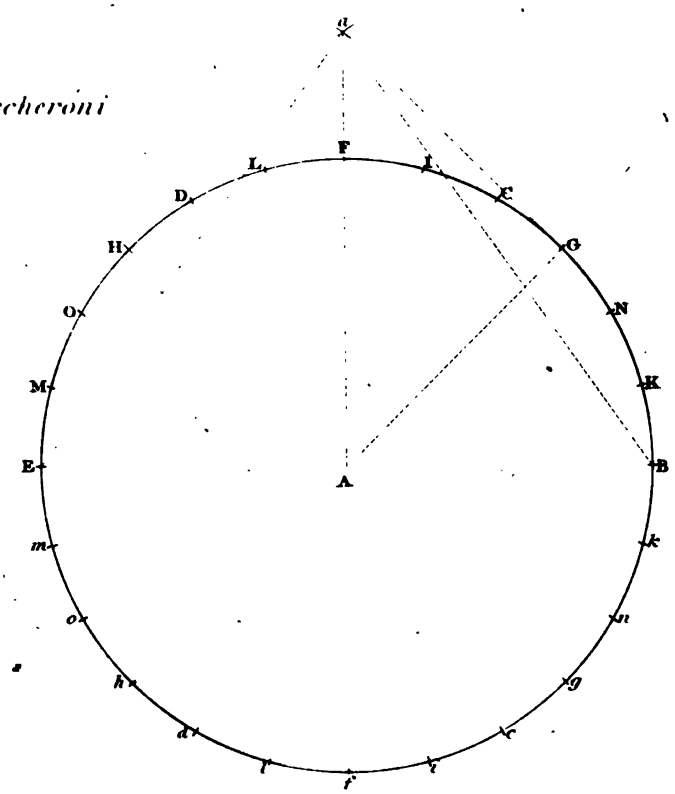
Fig. 1.

Fig. 4.

Fig. 3.

by Mascheroni





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Engraved by W. Lowry.

ASTRONOMICAL INSTRUMENTS.

ROTATIVE ROOF.

Rev.d W. Pearson's

Fig. 5.

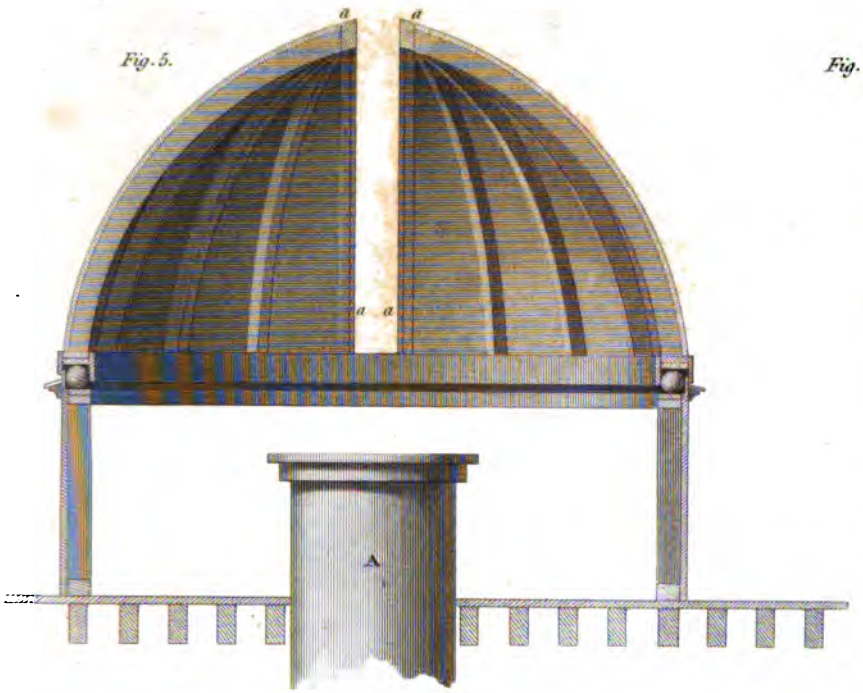


Fig. 6.

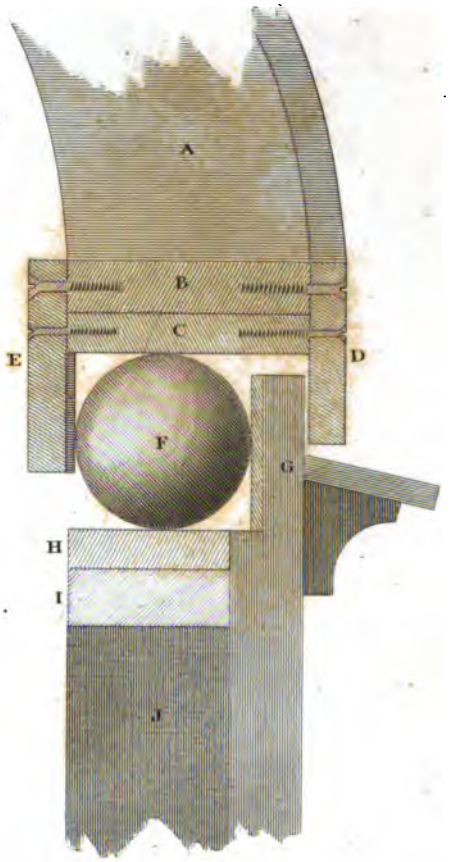
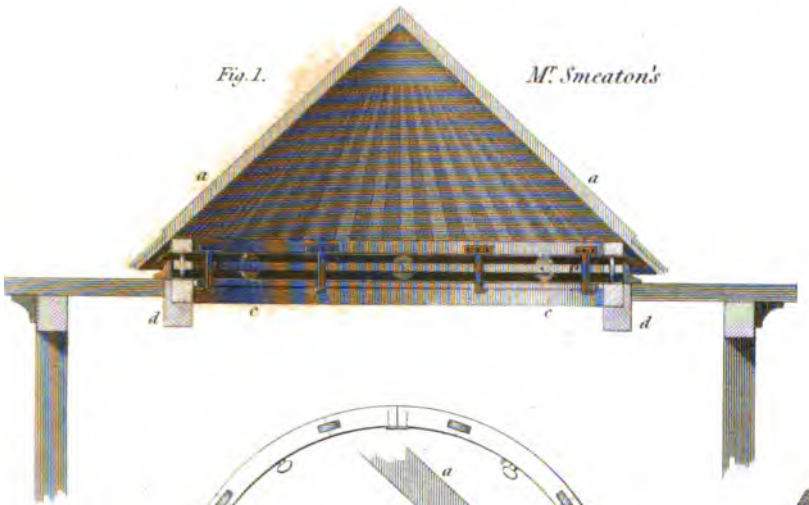


Fig. 1. Mr. Smeaton's



Section of the Lids.

Fig. 3.

Fig. 2.

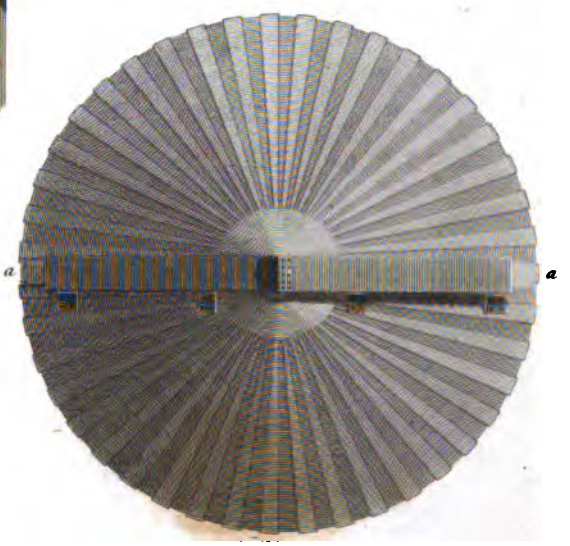
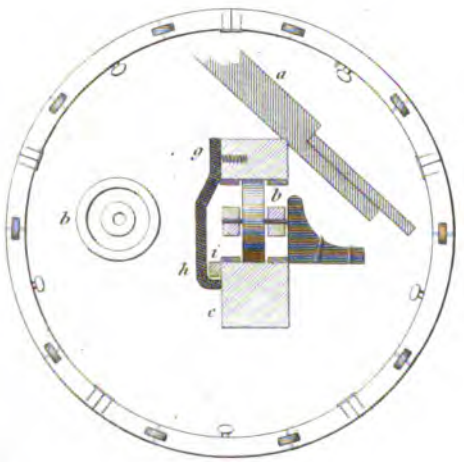


Fig. 4.



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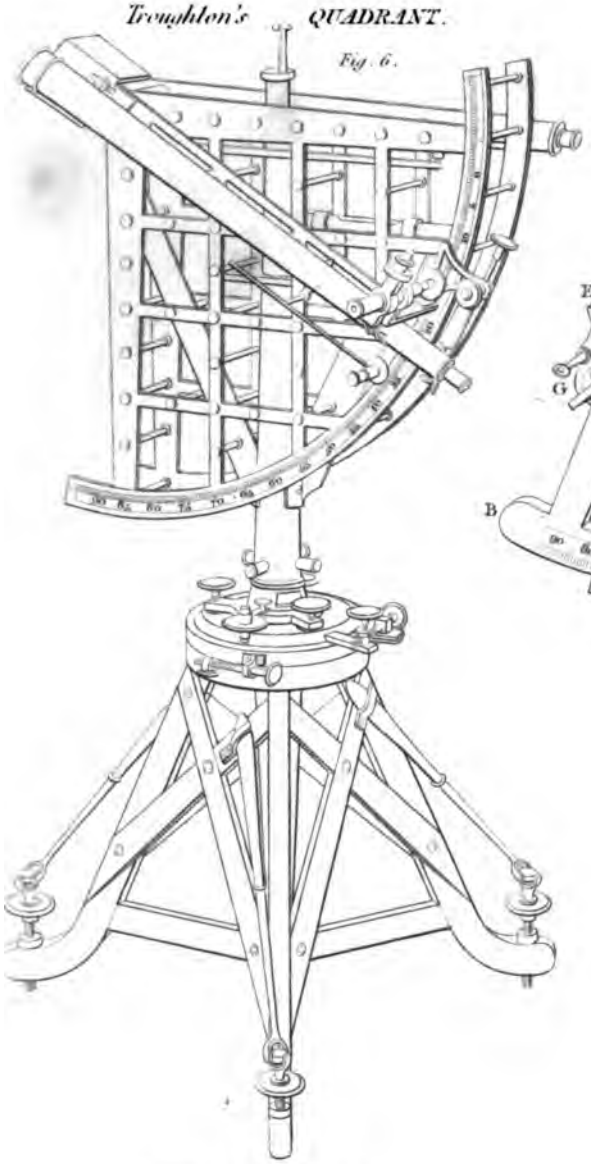
W Lowry sculp.

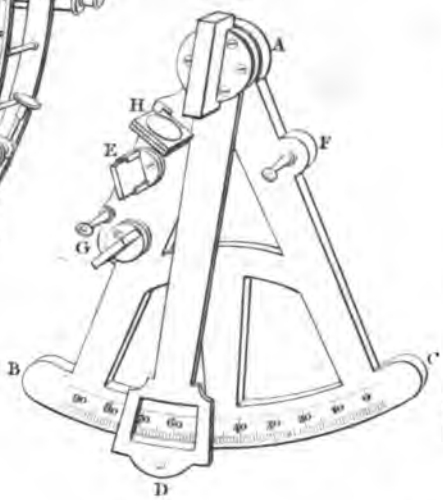
Troughton's QUADRANT.

Fig. 6.



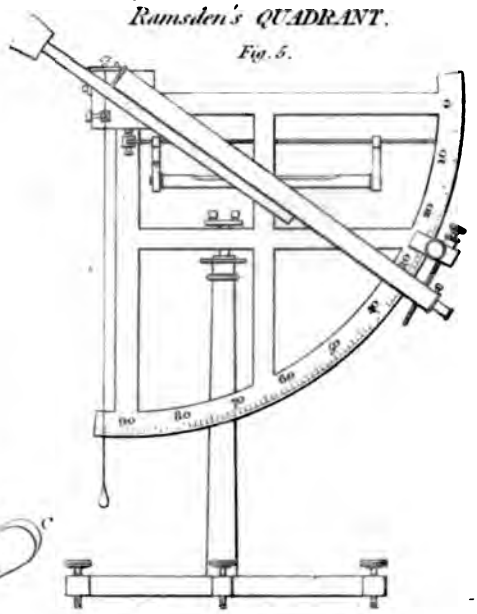
Hadley's OCTANT.

Fig. 1.



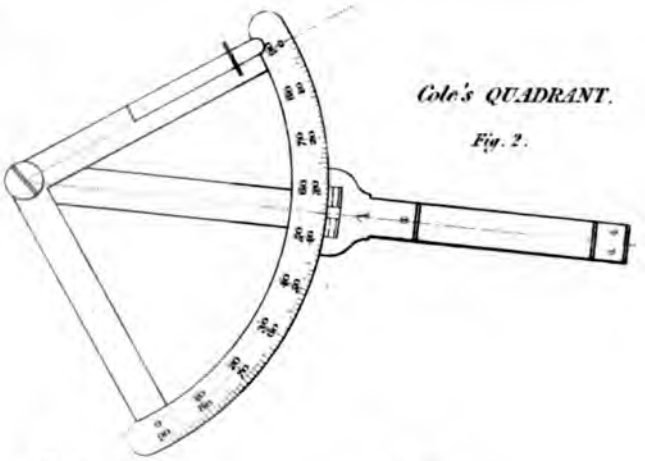
Ramsden's QUADRANT.

Fig. 5.



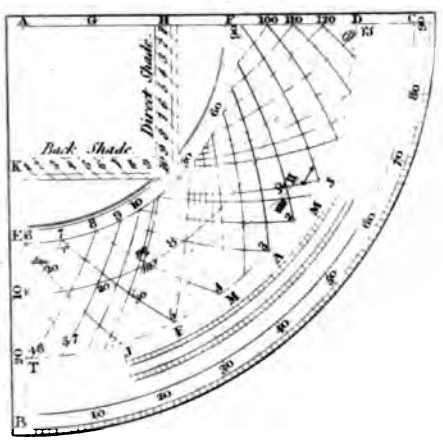
Cole's QUADRANT.

Fig. 2.



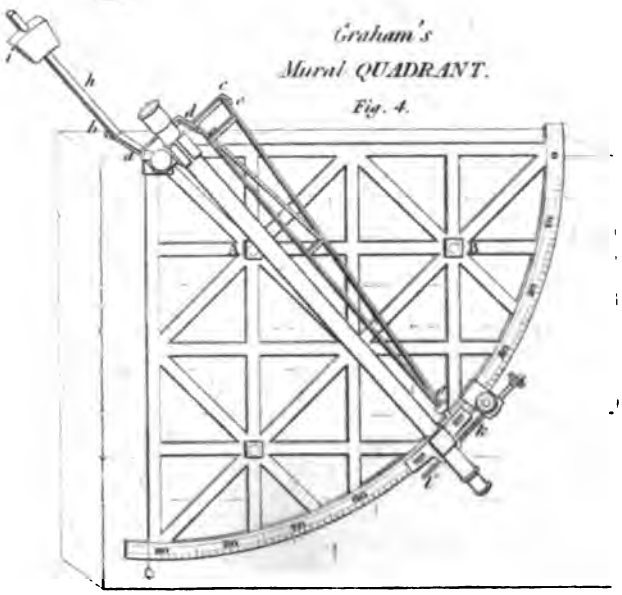
Gunter's QUADRANT.

Fig. 3.



Graham's Mural QUADRANT.

Fig. 4.



ASTRONOMICAL INSTRUMENTS.

Theory of the refracting **TELESCOPE** *and compound* **MICROSCOPE**.

Fig. 1.

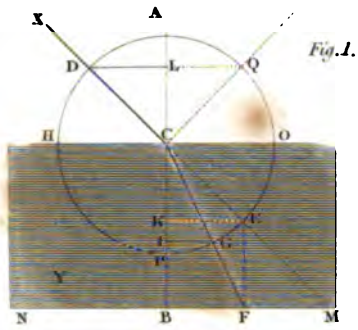


Fig. 2.

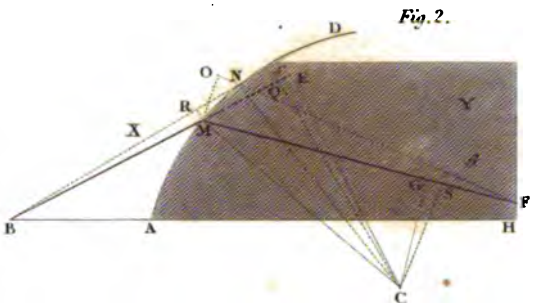


Fig. 3.

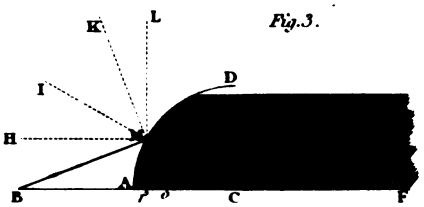


Fig. 4.

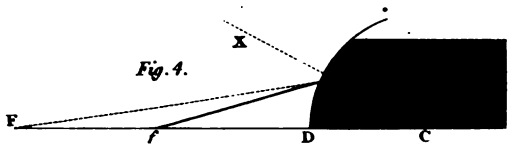


Fig. 5.

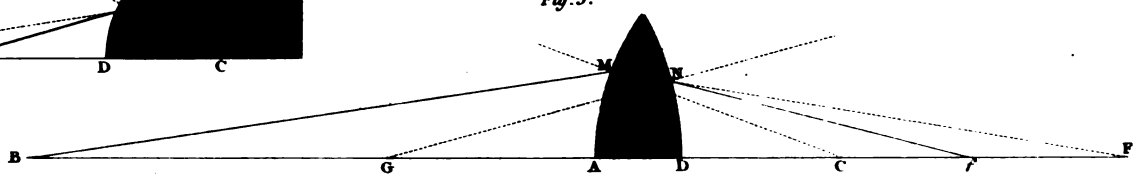


Fig. 6.

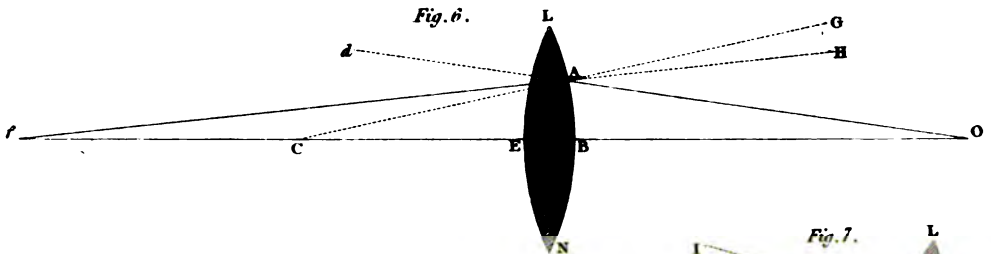
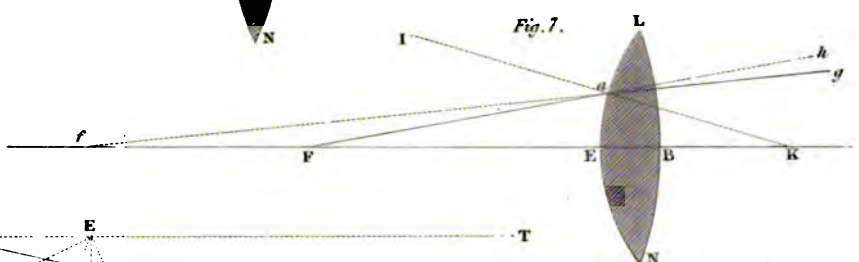


Fig. 7.



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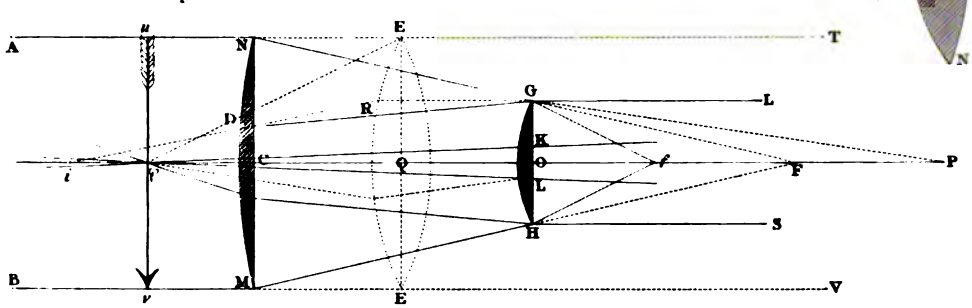

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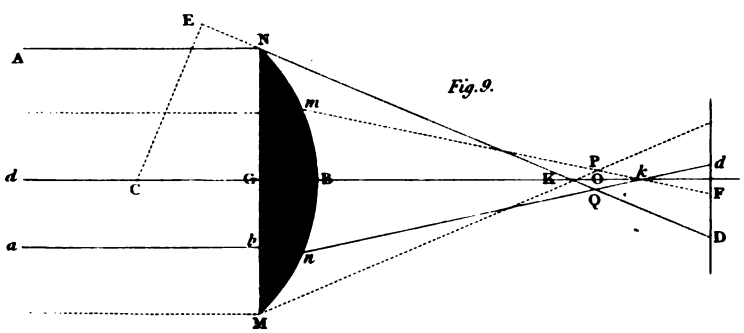


Fig. 10.

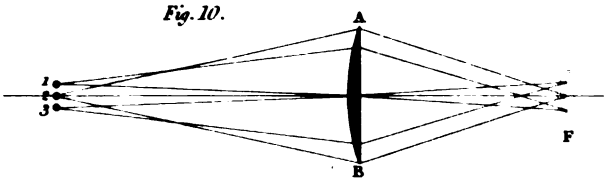
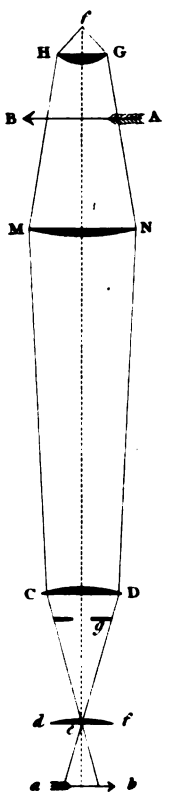


Fig. II.



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ASTRONOMICAL INSTRUMENTS.

The Theory of refracting TELESCOPES, *and of the compound* MICROSCOPE.

Fig. 1.

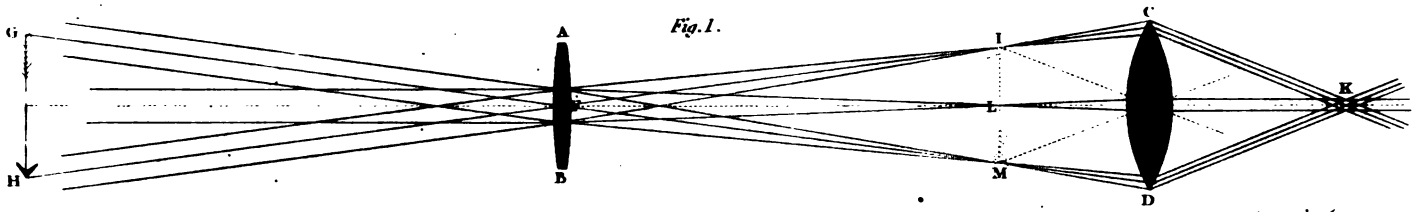


Fig. 2.

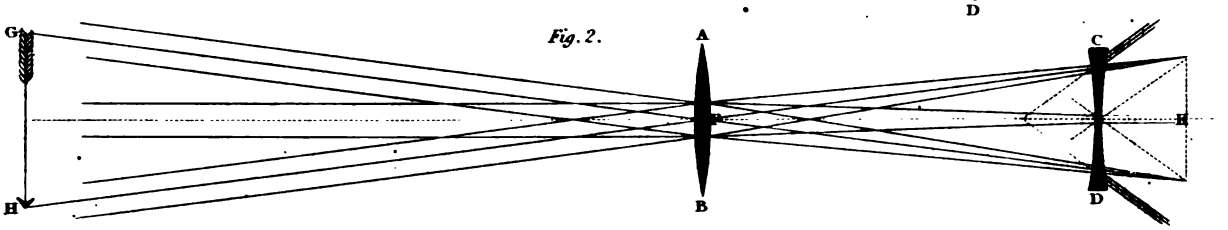


Fig. 3.

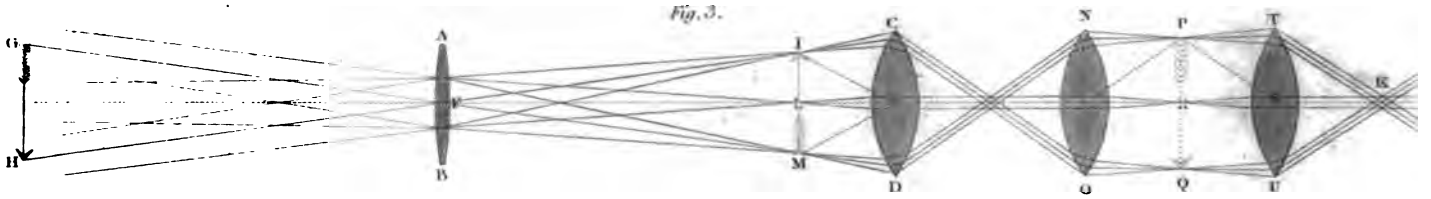
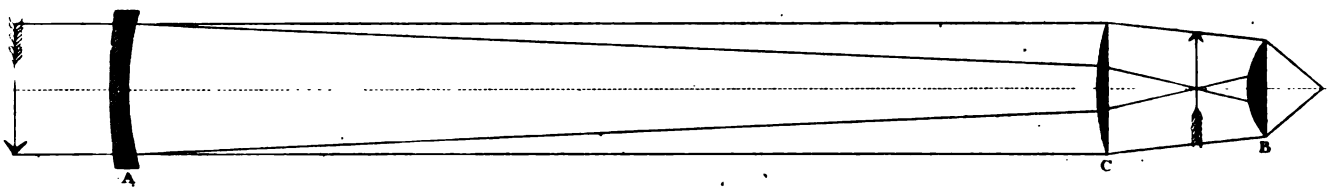


Fig. 4.



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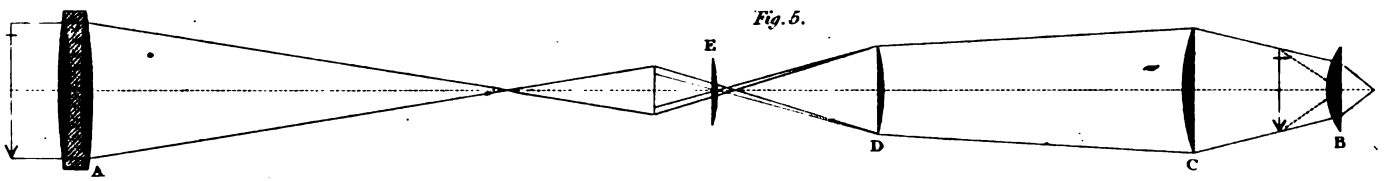

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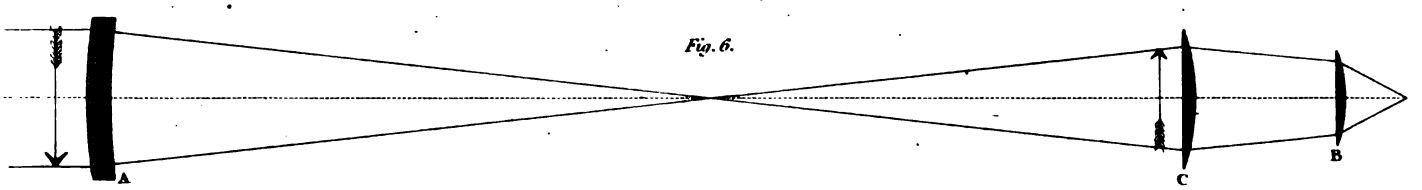

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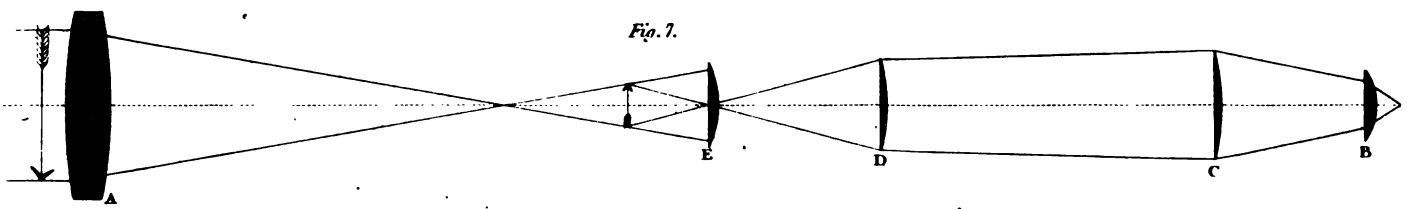

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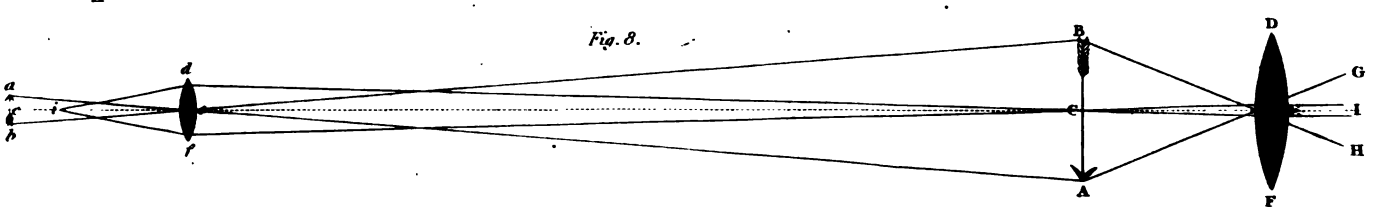

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ASTRONOMICAL INSTRUMENTS.

Theory of the **TELESCOPE** *with respect to aberrations &c.*

Fig. 1.

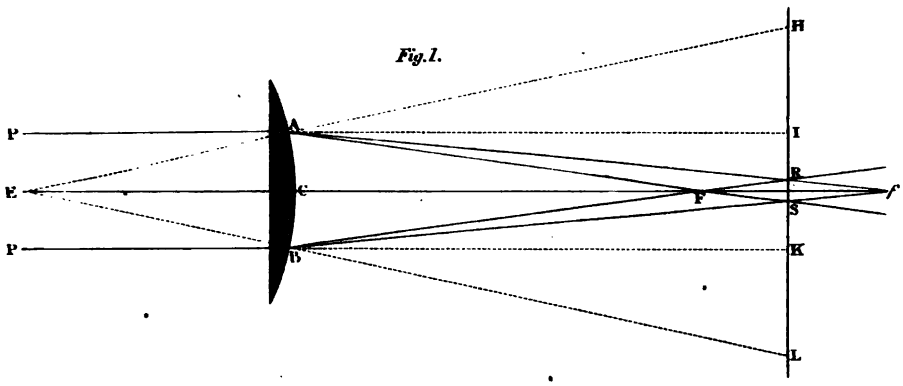


Fig. 2.

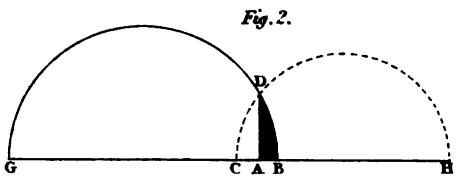


Fig. 3.

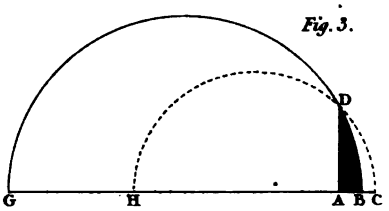


Fig. 4.

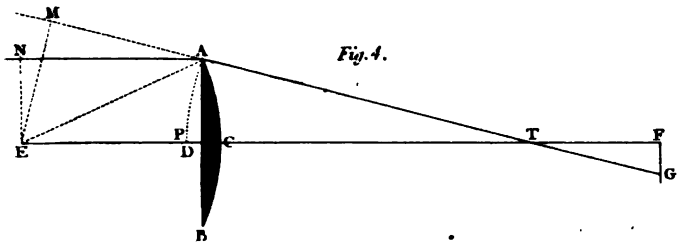


Fig. 5.

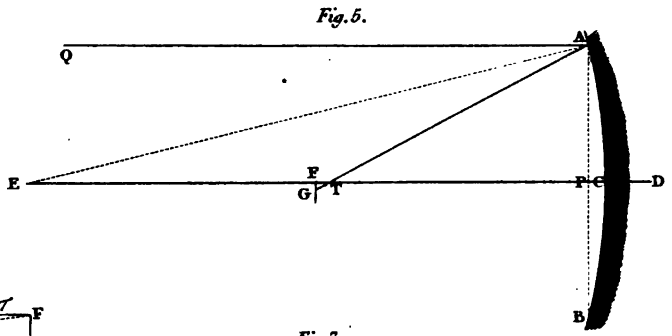
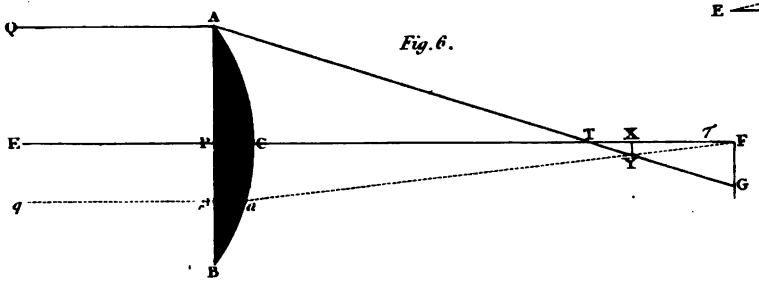


Fig. 6.



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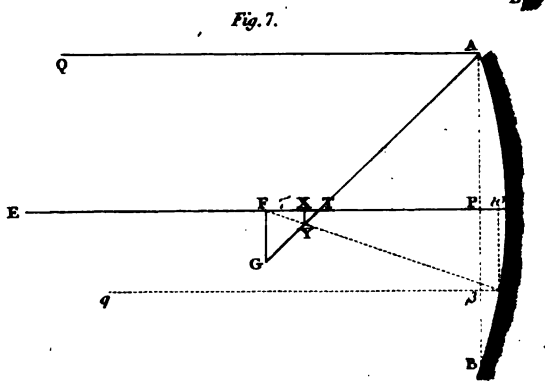

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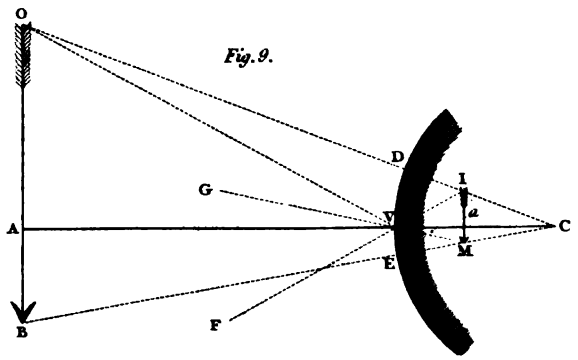

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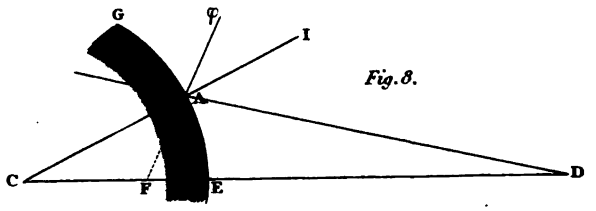

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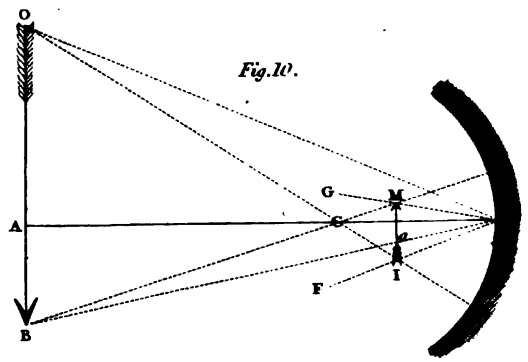

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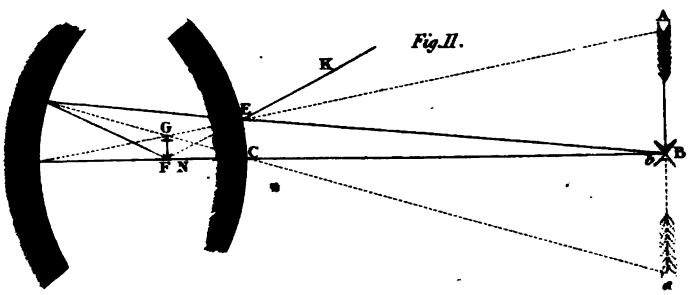

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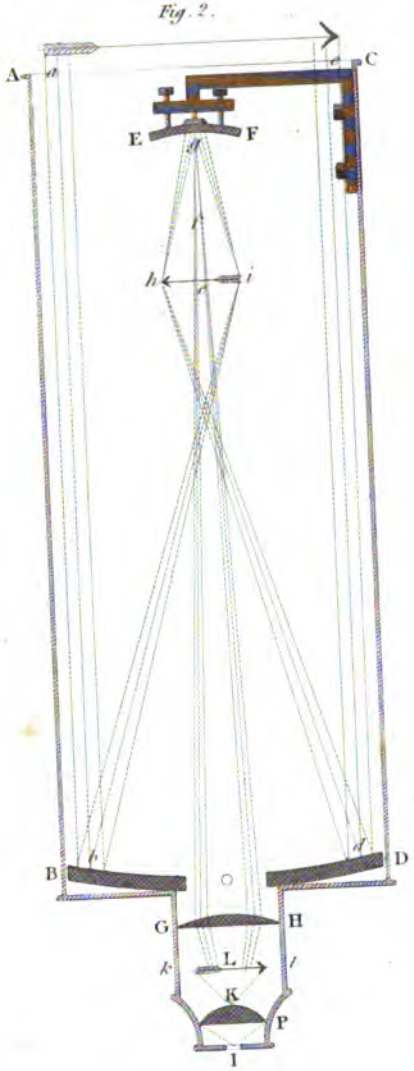
ASTRONOMICAL INSTRUMENTS.

Theory of Reflecting TELESCOPES.

Fig. 1.

Fig. 2.



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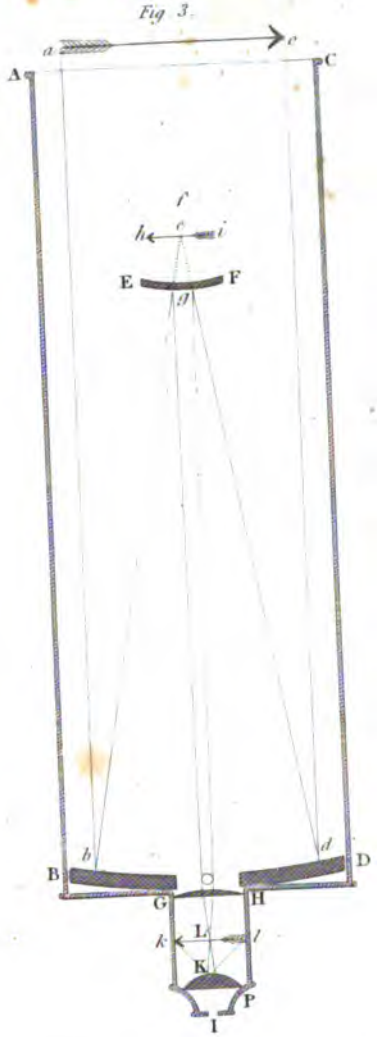

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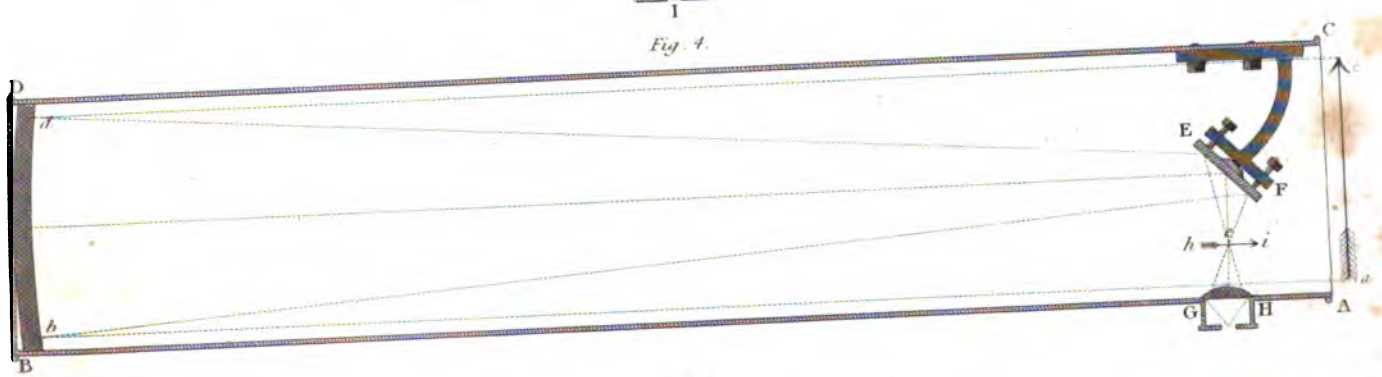

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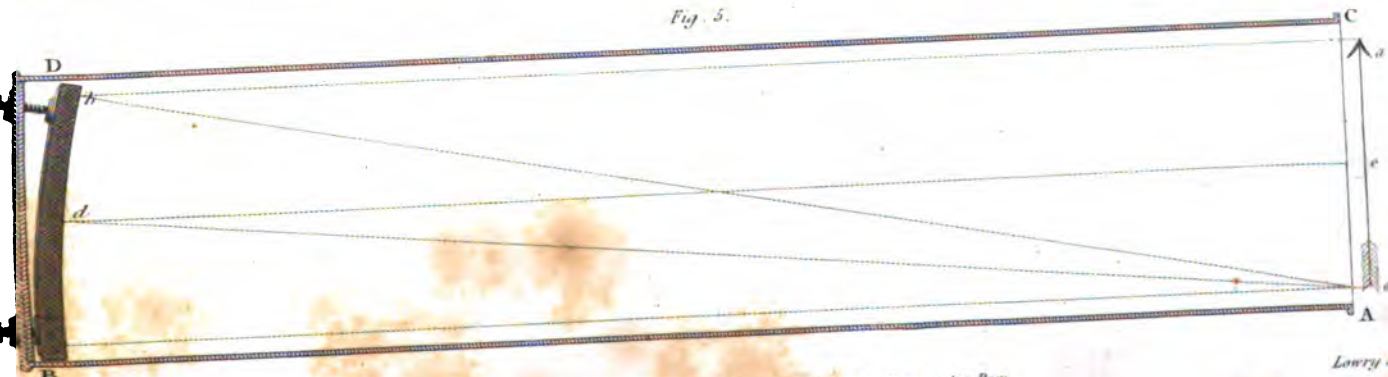

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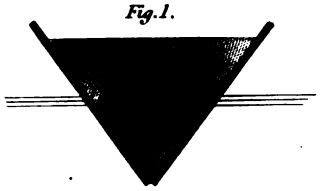
ASTRONOMICAL INSTRUMENTS.

Principles of Achromatic TELESCOPES.

Fig.1.



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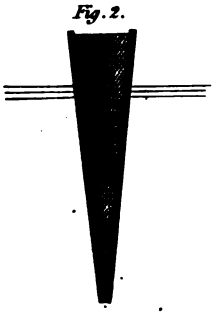

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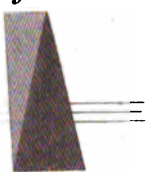


Fig.4.

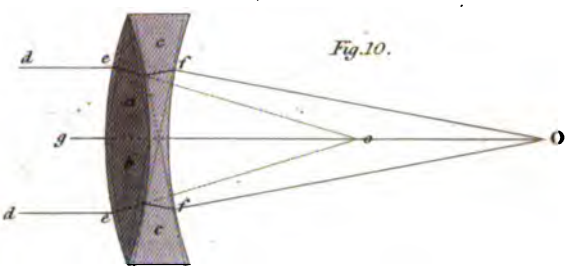
Fig.5.

Fig.6.

Fig.7.

Fig.8.

Fig.10.



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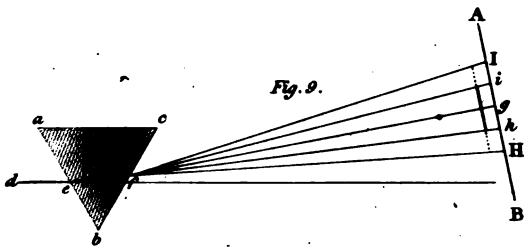

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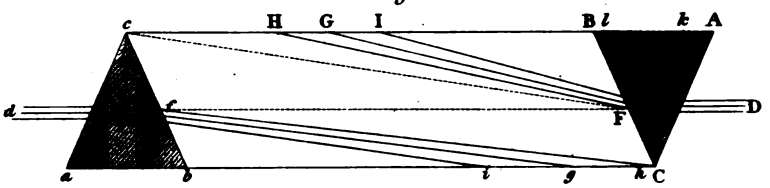

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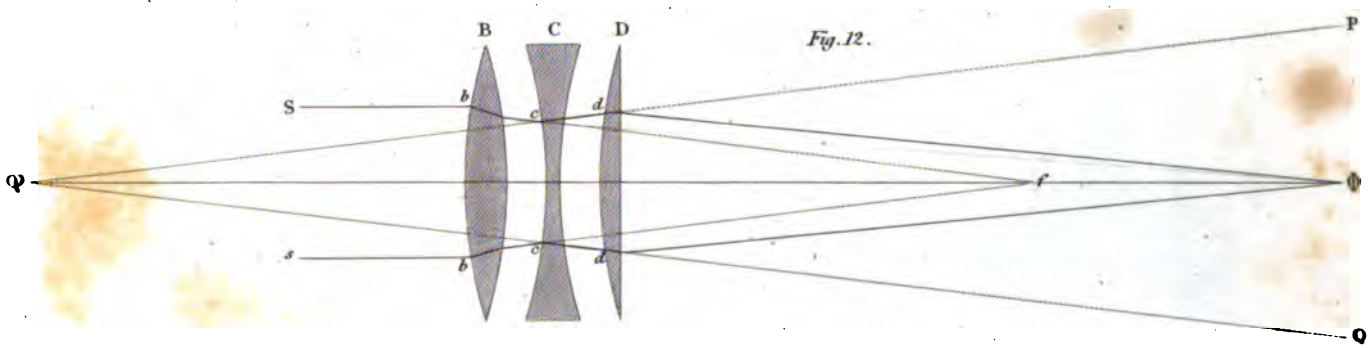


Fig.13.
(Negative)

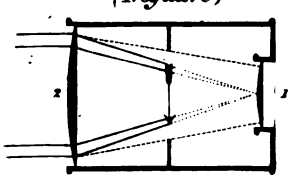


Fig.14.
(Positive)

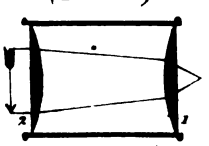


Fig.15.
(for Microscopes)

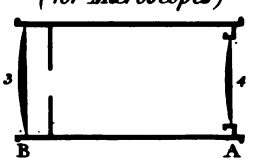
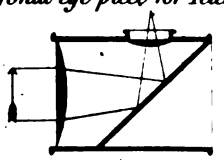


Fig.16.
(Diagonal eye piece for Telescopes)



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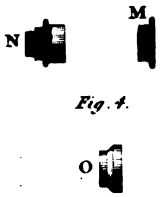
ASTRONOMICAL INSTRUMENTS.

ACHROMATIC TELESCOPES and DYNAMETERS.



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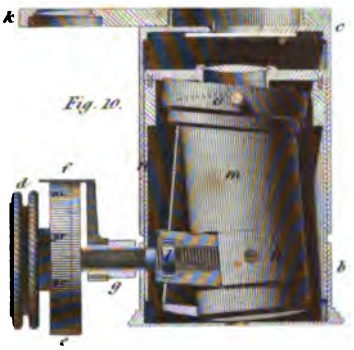
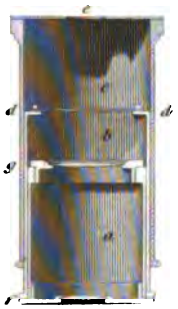


Fig. 10.



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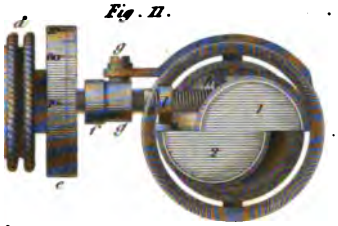

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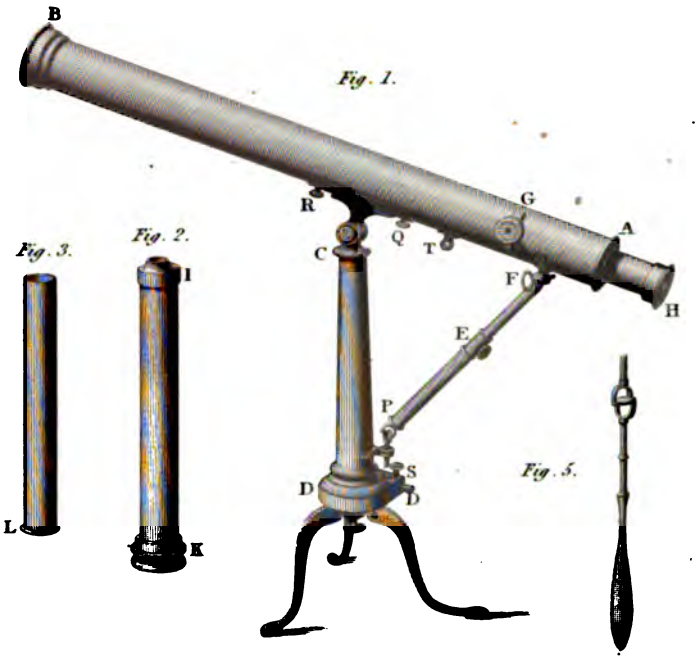

Fig. 1.

Fig. 3.

Fig. 2.

Fig. 5.

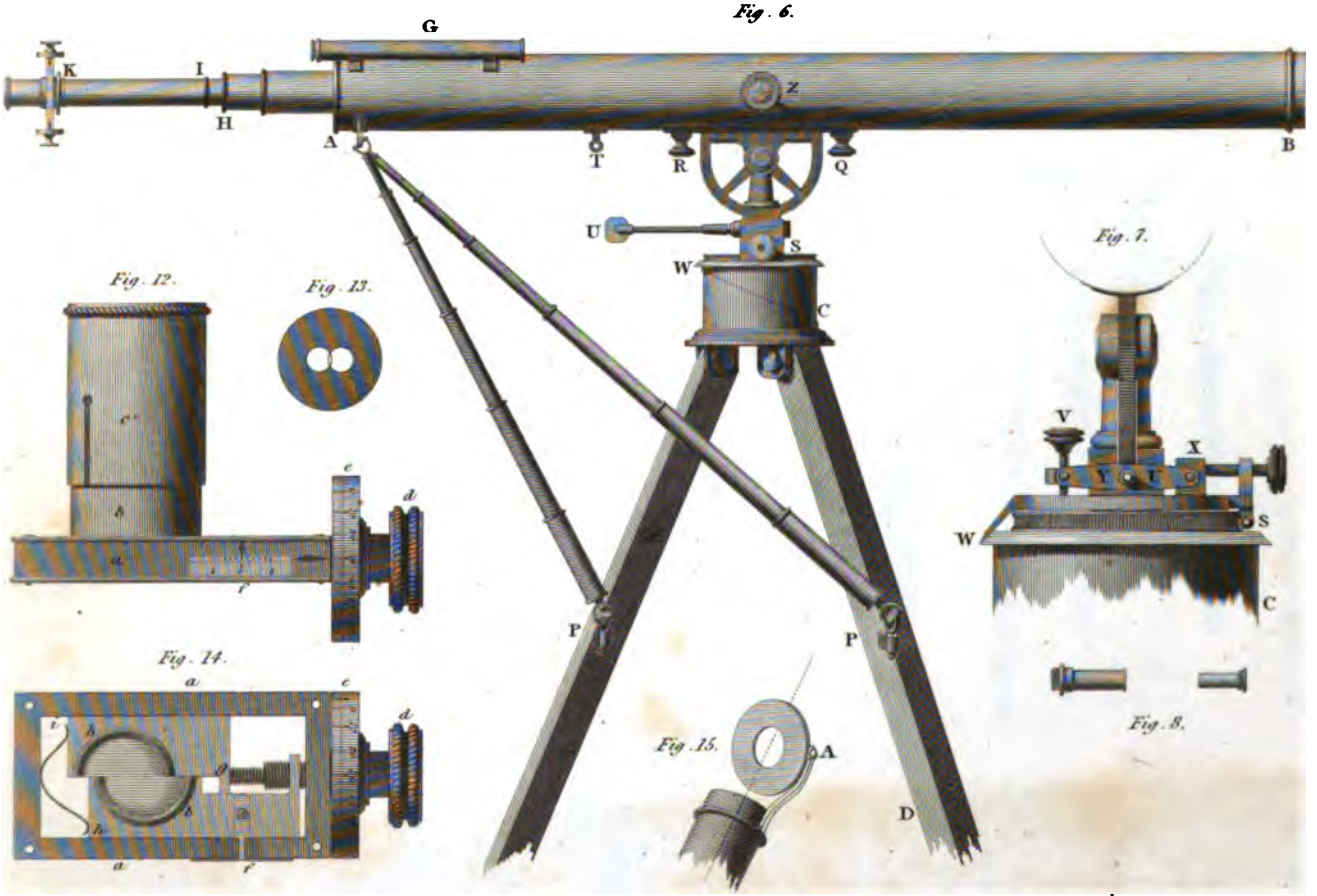

Fig. 6.

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 7.

Fig. 8.

Fig. 15.

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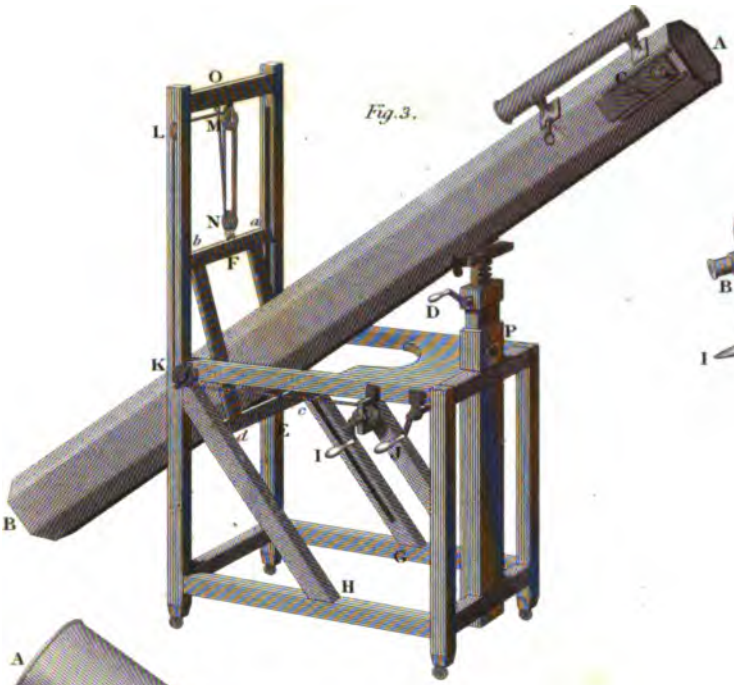
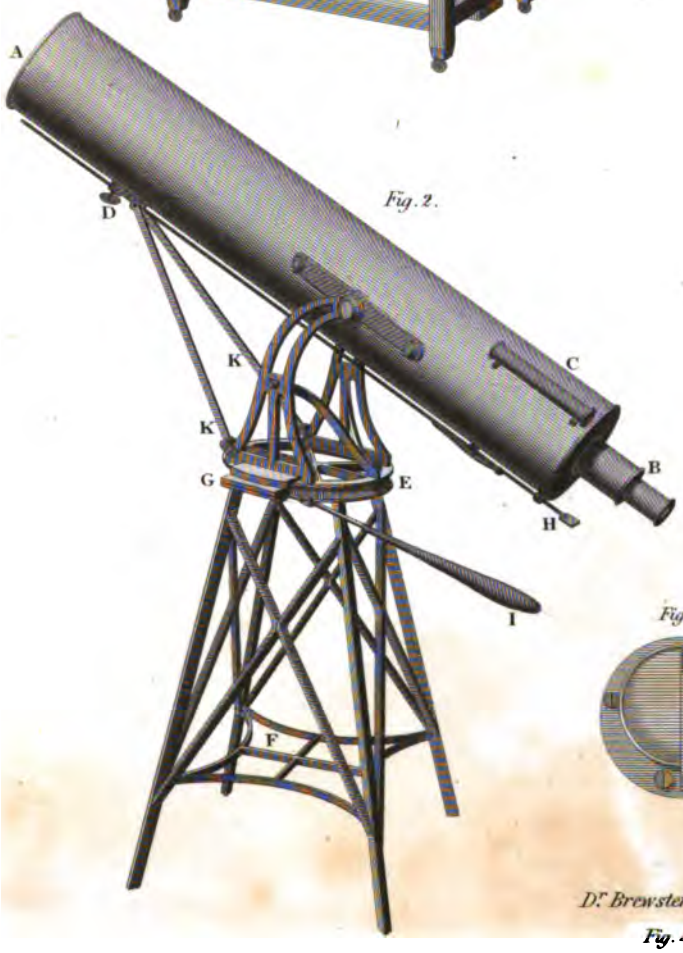
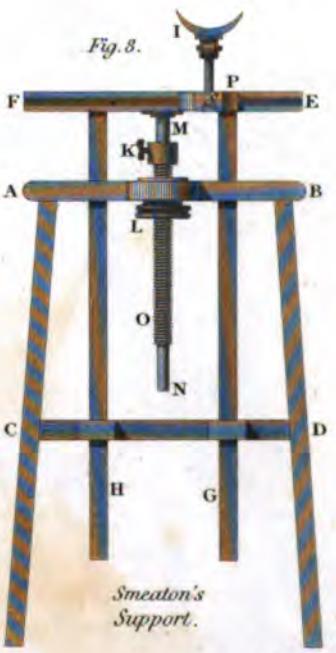
ASTRONOMICAL INSTRUMENTS.

TELESCOPES chiefly Reflecting.







D^r. Brewster's Patent.

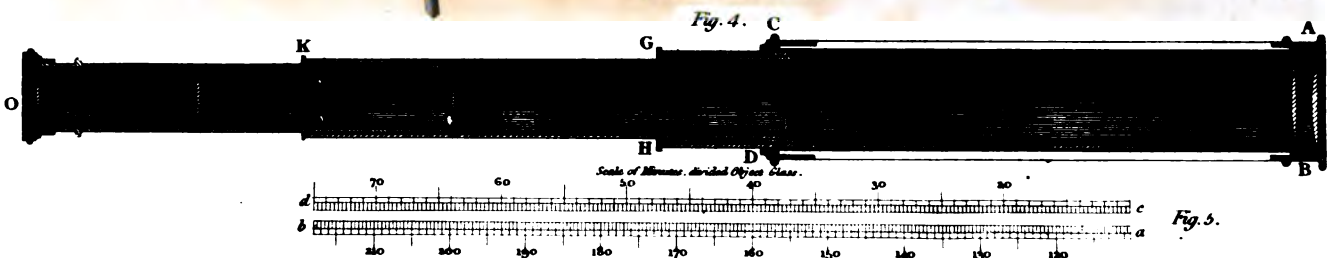


Fig. 5.

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Dr HERSCHEL's, Forty Feet Reflecting TELESCOPE.

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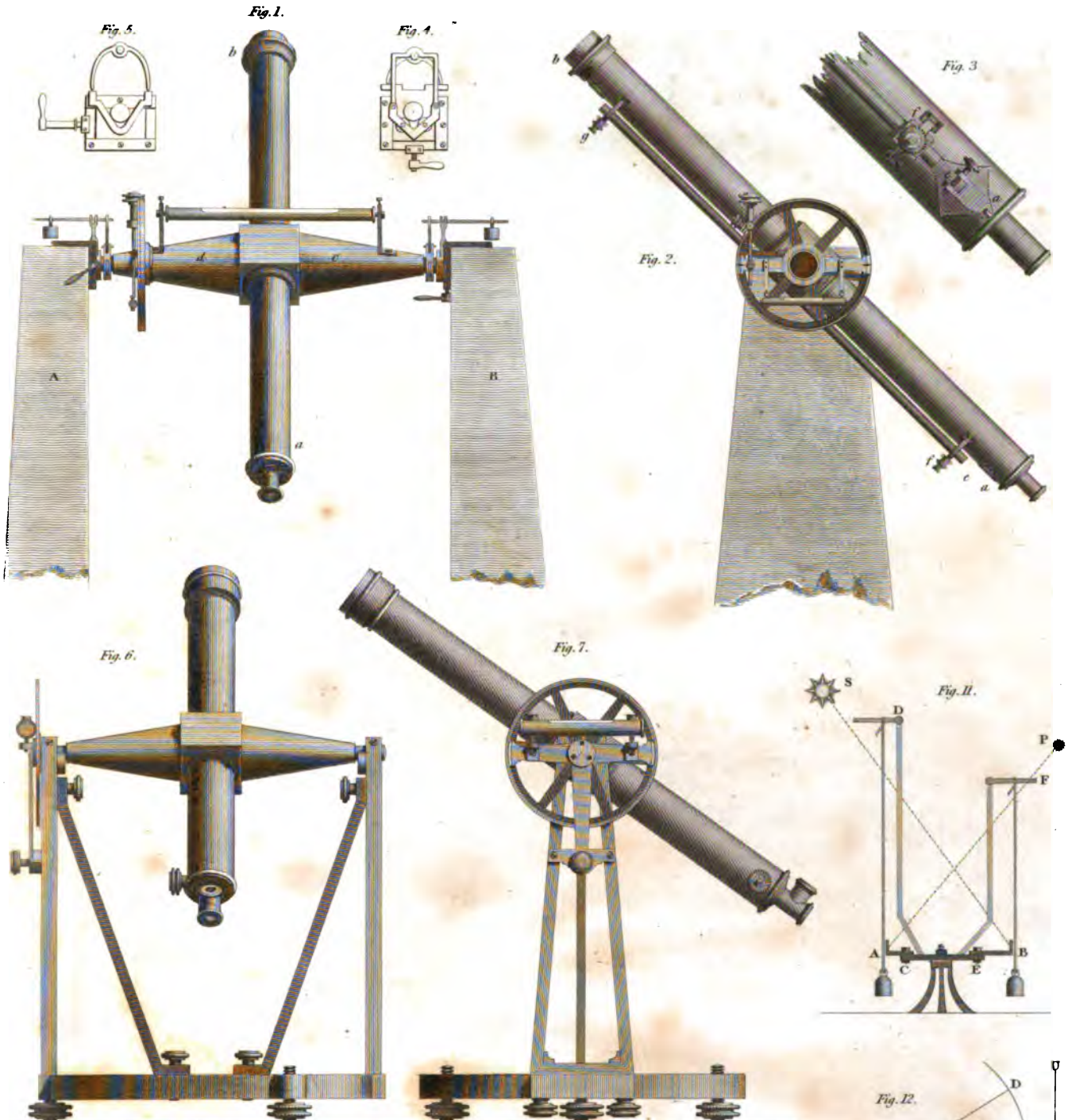
ASTRONOMICAL INSTRUMENTS.

TRANSIT INSTRUMENTS.



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